Coal is found in Mississippian, Jurassic, Cretaceous and Tertiary non-marine sequences which underlie as much as 37 000 km^2 of the Yukon. The largest deposits and those with the greatest potential are located within the mid-Cretaceous to Eocene strata of the Bonnet Plume Basin of northeastern Yukon. The basin is a pull-apart feature related to strike-slip faults of the Richardson Fault Array.

Coal also occurs within the Jura-Cretaceous sedimentary rocks in the Whitehorse Trough, which developed as a forearc basin on the eastern side of the Stikine arc. These deposits were formed in fan deltas which separated the emerging arc terrain from flyschoid environments within the trough. Some deposits occur in Cretaceous to Eocene pull-apart basins along the Tintina Fault.

Significant coal occurences also are documented in the southeast Yukon's Rock River Basin, a 50 km by 10 km graben or half graben filled with Late Cretaceous to Eocene sedimentary rocks.

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Significant efforts to develop the coal resource have taken place in the four areas listed below.

Division Mountain

The Division Mountain coal deposit is located 90 km northwest of Whitehorse, approximately 20 km west of the Klondike Highway and the 138 kV Southern Yukon electrical transmission grid. Cash Resources has identified a deposit of 52.9 million tonnes of coal.

The coal is characterized as high ash, low sulphur, high volatile bituminous B. It occurs in seams of mineable thickness, and there is probable continuity along the strike for at least 15 km. Furthermore, there is considerable potential in the area to discover more coal.

Whitehorse Coal

Whitehorse Coal is located approximately 30 km southwest of Whitehorse, close to transportation routes and domestic markets. Seams of mineable thickness, 0.6 to 13 m, have been identified extending discontinuously for 12 km. The coal is a low-sulphur, moderate to high ash anthracite. Coal near the surface is highly oxidized.

Rock River

Coal is confined to an area approximately 10 by 50 km, and is mostly concealed in a mantle of clay, gravel and sand, locally up to 30 m thick. Based on five drill holes totaling 720 m, there appears to be approximately 60 million tonnes of coal within 80 m of the surface. It is classified lignite A to sub-bituminous C, with a thermal content of 3,720 kCal/kg. The gravity survey outlined anomalous areas indicating a potential for up to 1.5 billion tonnes. The coal is amenable to surface mining at a ratio of approximately 2 to 1, waste to coal by volume.

Bonnet Plume

The Bonnet Plume Basin is located in the northern Yukon approximately 100 km to the east of the Dempster Highway. It contains the Yukon's largest

52.9 million tonnes

Typical exposure of the coal bearing Tanglefoot formation, east of Carmacks. (inset) Discovery outcrop at the Division Mountain coal deposit which occurs in the upper Tanglefoot formation within the Whitehorse Trough.

reserves of coal, 660 million tonnes of high volatile bituminous C, in seams of mineable thickness. The coal is of low sulphur content and is potentially clean-burning. The coal is potentially suitable for conversion to clean gaseous or liquid fuels. The major drawback is its remote location, which leads to high costs for development work and transportation to markets.

The following table extracted from the document "Yukon Coal Potential" is a more detailed summary of the coal in the South Bonnet Plume Basin a mid-Cretaceous to Tertiary sedimentary basin which hosts the largest coal resources in Yukon.

South Bonnet Plume Basin coal

Location	Seam name	Average seam thickness (m)	Type (rank) of coal	Moisture content (%)	Ash content (%)	Volatile content (%)	Fixed carbon (%)	Sulphur content (%)	Calorific value (BTU/lb)	Calorific value (MJ/kg)	Resource-measured (million tonnes)*	Resource-indicated (million tonnes)*	Resource-inferred (million tonnes)*	Resource-total (million tonnes)*
Illtyd Creek	#1	6.85	HVB C	5.2	19.8	32.8	42.2	0.35	9067	21.09	121	29	33	183
	#2	3.66		5.5	13.8	34.2	46.5	0.33	9910	23.05				
	#3	2.40		5.1	20.1	32.3	42.2	0.35	9041	21.03				
West Illtyd Creek	#3		HVB C										48	48
	#4													
	#5													
Wernecke	#1	5.65	HVB C	3.9	12.9	36.1	47.1		10547	24.53		105	29	134
	#2	9.51		5.0	10.3	36.0	48.9		10810	24.14				
	#3	3.43		6.7	16.2	32.2	45.1	0.33	9622	22.38				
	#4	2.92		7.3	9.6	33.9	49.1	0.33	10592	24.64				
	#5	2.72		6.5	16.5	29.5	48.5	0.27	9723	22.62				
Airstrip (Marathon)	#3	5.50	HVB C	4.4	18.6	32.2	44.8	0.39	9380	21.82			18	18
	#4	4.89		5.2	18.8	30.3	45.8	0.34	9499	22.09				
Wind River (Deslaurier)	#3	8.00	HVB C	4.4	18.1	31.0	45.6	0.40	9743	22.66		60	43	103
	#4	4.75		4.7	14.3	32.6	48.4	0.40	10167	23.65				
	#5	9.39		4.5	11.6	31.9	51.9	0.47	10556	24.55				
Spaceship	#1	6.42	HVB C	4.5	14.9	34.4	46.2	0.32	10052	23.38			158	158
	#2	8.49		5.2	12.4	34.5	48.2	0.31	10316	24.00				
	#3	7.12		4.7	13.3	33.3	48.7	0.3	10223	23.78				
	#4	5.45		4.7	12.6	32.8	49.6	0.24	10452	24.31				
	#5	1.93		4.9	11.8	30.5	52.8	0.28	10506	24.44				
Garlic Ring	#1	2.60	HVB C									9	6	15
	#2	1.40												
Total														**659**

Analyses are for clean coal — produced by washing the +28 mesh fraction at 1.90 specific gravity.
*Resources were calculated in the 1980s and may not conform to guidelines currently in use (NI 43-101).
The above information is summarized from the following references:

Hunt, J.A., 1994. Yukon Coal Inventory 1994. Prepared for Energy and Mines Branch, Economic Development, Yukon government, 168 p.

Long, D.G.F., 1985. Coal in Yukon. *In:* Mineral Deposits of the Northern Cordillera, J.A. Morin (ed.), Canadian Institute of Mining and Metallurgy, Special Volume 37, p. 311-318.

Wright, J.E. and Miller, D.C., 1986. Rock River coal basin: geology, gravity survey and interpretion. *In: In:* Mineral Deposits of the Northern Cordillera, J.A. Morin (ed.), Canadian Institute of Mining and Metallurgy, Special Volume 37, p. 362-371.

Canada's Yukon

reserves of coal, 660 million tonnes of high volatile bituminous C, in seams of mineable thickness. The coal is of low sulphur content and is potentially clean-burning. The coal is potentially suitable for conversion to clean gaseous or liquid fuels. The major drawback is its remote location, which leads to high costs for development work and transportation to markets.

The following table extracted from the document "Yukon Coal Potential" is a more detailed summary of the coal in the South Bonnet Plume Basin a mid-Cretaceous to Tertiary sedimentary basin which hosts the largest coal resources in Yukon.

South Bonnet Plume Basin coal

Location	Seam name	Average seam thickness (m)	Type (rank) of coal	Moisture content (%)	Ash content (%)	Volatile content (%)	Fixed carbon (%)	Sulphur content (%)	Calorific value (BTU/lb)	Calorific value (MJ/kg)	Resource-measured (million tonnes)*	Resource-indicated (million tonnes)*	Resource-inferred (million tonnes)*	Resource-total (million tonnes)*
Tlhtyd Creek	#1	6.61	HVB-C	4.5	19.8	33.8	41.9	0.34	9806	22.809	171	79	33	283
	#2	2.60		4.6	12.6	34.5	46.4	0.33	9990	23.232				
	#3	5.80		4.1	9.6	35.3	51.0	0.35	10414	24.215				
West Tlhtyd Creek	#1		HVB-C										88	88
	#2													
	#3													
Wernecke	#1	3.65	HVB-C	3.9	13.9	36.1	46.1		10147	23.59		161	99	134
	#2	9.41		4.0	10.3	36.0	48.9		10810	25.14				
	#3	3.33		4.2	10.7	35.7	44.1	0.33	9655	22.46				
	#4	7.92		4.1	9.6	33.9	49.3	0.33	10347	24.064				
	#5	4.75		6.3	10.3	29.5	48.3	0.27	9753	22.682				
Anstop (Marathon)	#3	5.50	HVB-C	4.4	18.6	32.2	44.8	0.39	9350	21.82			18	18
	#4	4.89		5.2	18.8	30.3	45.8	0.34	9499	22.09				
Wind River Deshantes	#3	6.00	HVB-C	4.1	18.1	31.0	44.6	0.30	9743	22.66		60	33	101
	#4	4.74		3.7	13.3	32.6	48.3	0.30	10162	23.63				
	#5	9.09		4.1	11.6	31.9	47.9	0.37	10156	23.62				
Spaceship	#1	6.42	HVB-C	4.5	14.9	33.4	46.2	0.32	10052	23.38			158	158
	#2	8.39		5.2	12.4	34.5	48.2	0.31	10316	24.00				
	#3	7.15		4.7	13.3	34.3	48.7	0.3	10273	23.78				
	#4	3.46		4.7	12.6	32.8	49.6	0.23	10452	24.31				
	#5	1.91		4.9	11.8	30.5	52.8	0.28	10506	24.44				
Cattle Ridge	#1	5.61	HVB-C									9	6	15
	#2	5.80												
Total														**659**

Analyses are for clean coal – produced by washing the -50 mesh fraction at 1.90 specific gravity.
*Resources were calculated in the 1980s and may not conform to guidelines currently in use (NI 43-101).
Further information is summarized from the following references:

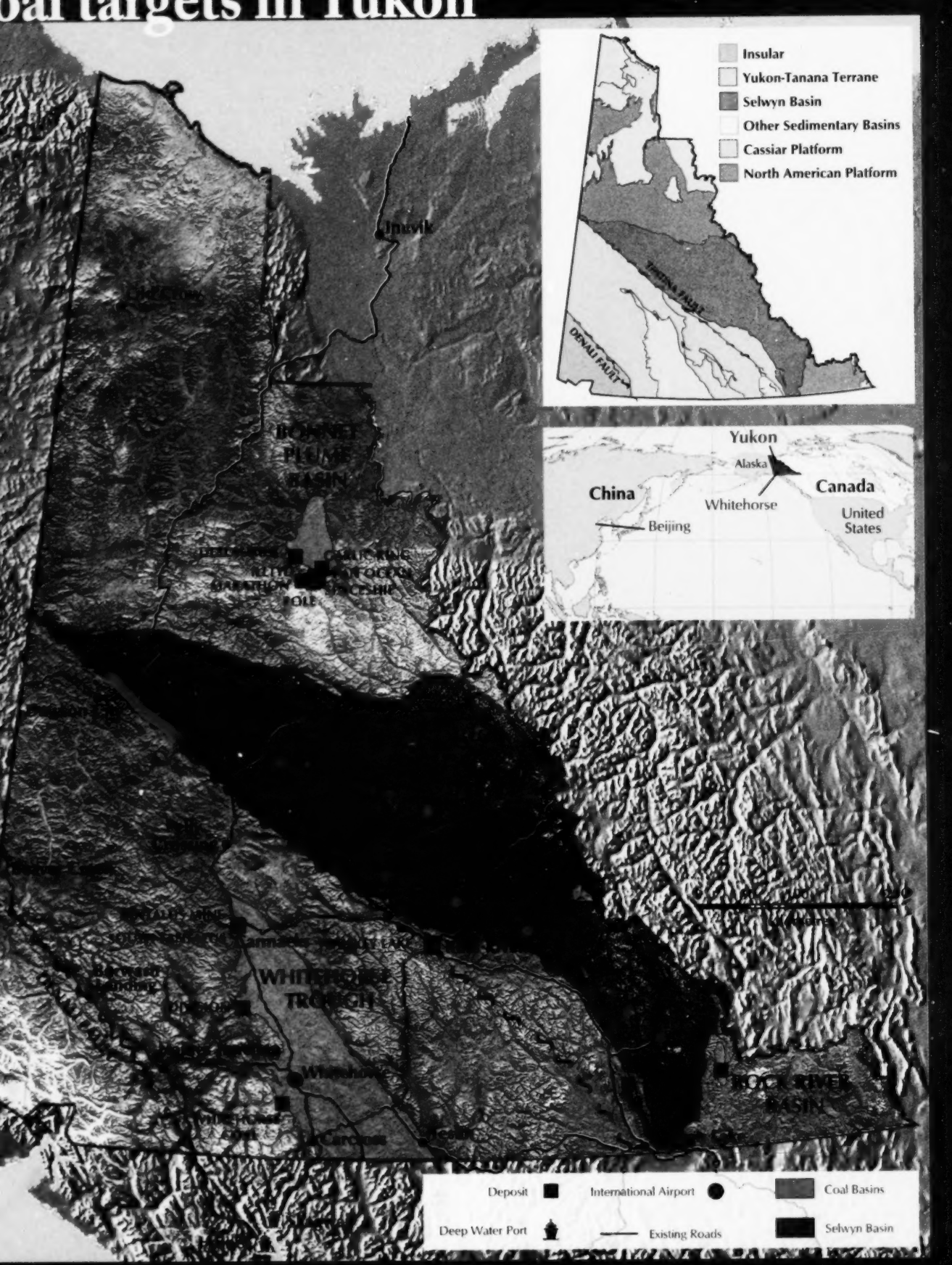
Hunt, E.V., 1991, Yukon Coal Inventory 1991: Prepared for Energy and Mines Branch, Economic Development, Yukon government, 106 p.

Long, D.G.F., 1985, Coal in Yukon; in Mineral Deposits of the Northern Cordillera, J.A. Morin, ed., Canadian Institute of Mining and Metallurgy, Special Volume 37, p. 311-318.

Wright, J.F., and Miller, D.E., 1956, Rock River coal basin, geology, fuel resources and interpretation; in Mineral Deposits of the Northern Cordillera, J.A. Morin, ed., Canadian Institute of Mining and Metallurgy, Special Volume 37, p. 362-374.

Canada's Yukon

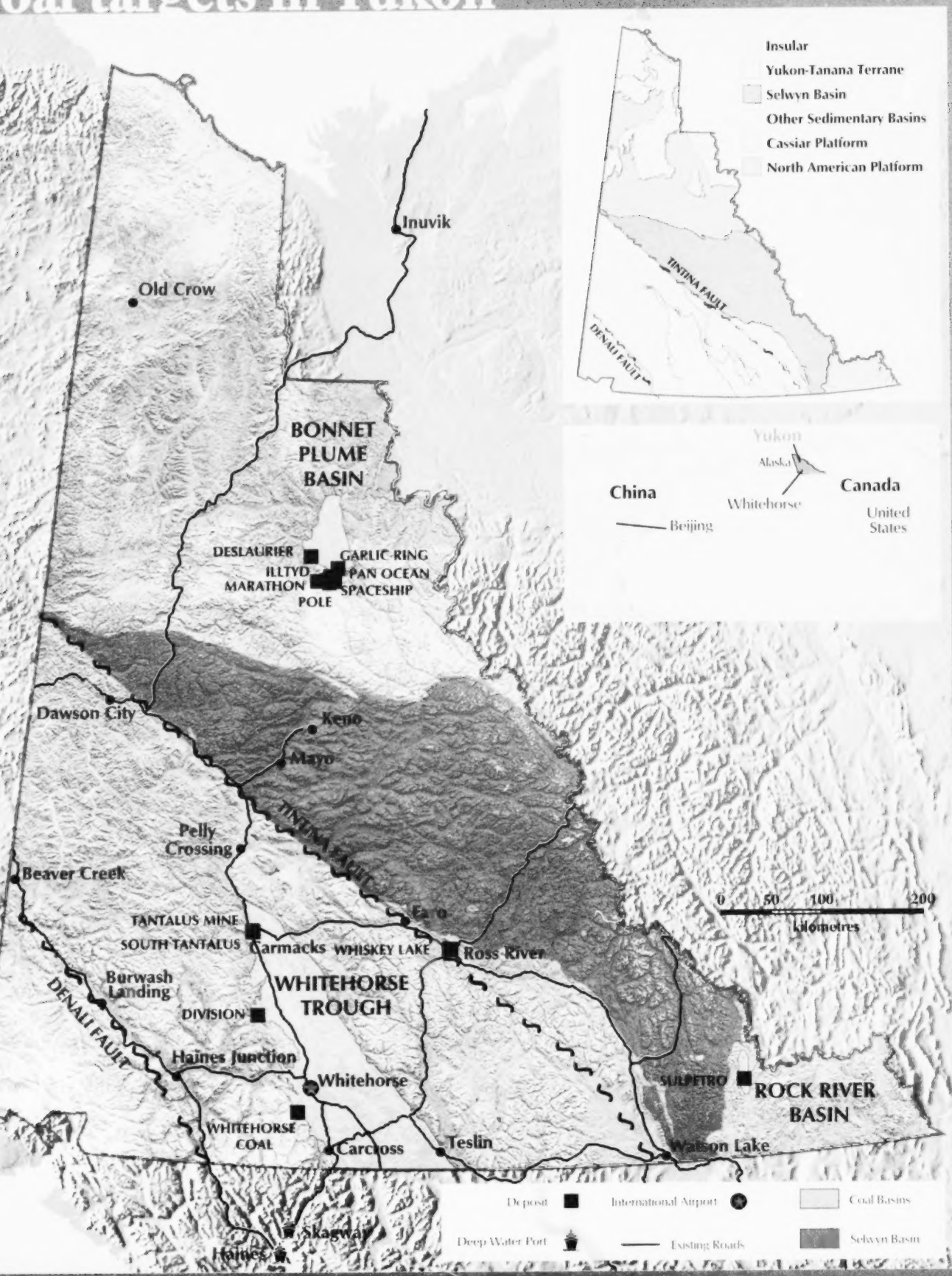
oal targets in Yukon



Yukon coal deposits

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/Reference	**Mineral resource-reserve category‡/** **Tonnage@ grade/commodity**	***Status*** **Yukon MINFILE no.****
Rock River Basin			
Sulpetro Almaden Minerals Ltd. 1103-750 Pender Street W Vancouver, British Columbia Canada V6C 2T8 Telephone: 604-689-7644	**Sulpetro** 1982 Assessment report #062134	Historical calculation 67 Mt lignite A to sub-bituminous C coal (CV = 15 456 kJ/kg)	*Deposit, inactive.* 1980: exploration license acquired. 1981-82: mapping, geophysics, drilling (718 m). 1983, 2004: area relicensed. 095D 026
Bonnet Plume Basin			
Marathon Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867-667-2270	**Marathon** 1980 Assessment report #062055	Inferred 18.4 Mt high volatile bituminous C coal (CV = 23 297 kJ/kg)	*Deposit, inactive.* 1905: presence of coal float noted in Wind River. 1977: exploration license acquired. 1979-80: mapping, drilling (387 m). 1980, 1983, 2005: area relicensed. 106E 013
Pole Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867-667-2270	**Pole** 1980 Assessment report #062055	Inferred 28.93 Mt Indicated 104.65 Mt High volatile bituminous C coal (CV = 23 297 kJ/kg)	*Deposit, inactive.* 1977: exploration license acquired. 1978-80: mapping, drilling (777 m). 1980, 1983, 2005: area relicensed. 106E 021
Garlic Ring Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867-667-2270	**Garlic Ring** 1980 Assessment report #062055	Inferred 5.55 Mt Indicated 8.6 Mt High volatile bituminous C coal (CV = 23 297 kJ/kg)	*Deposit, inactive.* 1977: exploration license acquired. 1980: drilling (484 m). 1980, 2005: area relicensed. 106E 032
Illtyd Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867-667-2270	**Illtyd** 1980 Assessment report #062055	Inferred 33.5 Mt Indicated 29.21 Mt Measured 120.93 Mt High volatile bituminous C coal (CV = 22 097 kJ/kg)	*Deposit, inactive.* 1977: exploration license acquired. 1978-79: Total of 3462 m of drilling; stratigraphic, metallurgical and feasibility studies. 1980, 1983, 2005: area relicensed. 106E 035
Pan Ocean Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867-667-2270	**West Illtyd** 1980 Assessment report #062055	Inferred 47.56 Mt High volatile bituminous C coal (CV = 23 297 kJ/kg)	*Deposit, inactive.* 1977: exploration license acquired. 1978: staked mineral rights. 1980: drilling (555 m), mapping. 1980, 2005: area relicensed. 106E 036
Deslaurier Philip Wheelton	**Deslaurier** 1980 Assessment report #062055	Inferred 43.8 Mt Indicated 60.83 Mt High volatile bituminous C coal (CV = 24 888 kJ/kg)	*Deposit, inactive.* 1977: exploration license acquired. 1979-80: mapping, drilling (612 m). 1980, 1983, 2001: area relicensed. 106E 037
Spaceship Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867-667-2270	**Spaceship** 1980 Assessment report #062055	Inferred 157.95 Mt High volatile bituminous C coal (CV = 23 297 kJ/kg)	*Deposit, inactive.* 1977: exploration license acquired. 1980: mapping, drilling (689 m). 1980, 2005: area relicensed. 106E 038

oal targets in Yukon



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Yukon coal deposits

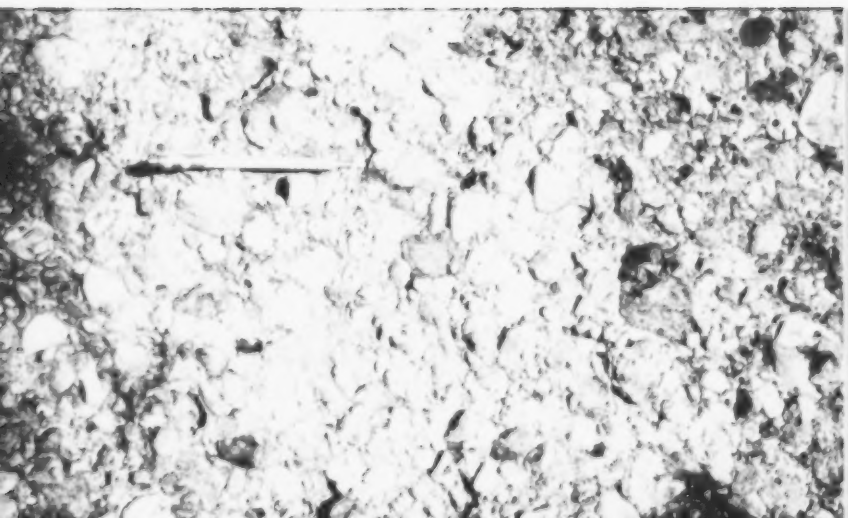
Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/Reference	Mineral resource-reserve category‡/ Tonnage@ grade/commodity	*Status* Yukon MINFILE no.**
Rock River Basin			
Sulpetro Almaden Minerals Ltd. 1103–750 Pender Street W. Vancouver, British Columbia Canada V6C 2T8 Telephone: 604 689 7644	**Sulpetro** 1982 Assessment report #062434	Historical calculation 37 Mt lignite A to sub-bituminous C coal (CV = 15–16 kJ/kg)	*Deposit, inactive* 1980: exploration license acquired. 1981–82: mapping, geophysics, drilling (716 m). 1983–2003: area relicensed. 095D 026
Bonnet Plume Basin			
Marathon Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867 667 2270	**Marathon** 1980 Assessment report #062055	Inferred 183.4 Mt high volatile bituminous C coal (CV = 23 297 kJ/kg)	*Deposit, inactive* 1965: presence of coal float noted in Wind River. 1977: exploration license acquired. 1979–80: mapping, drilling (857 m). 1980, 1983, 2005: area relicensed. 106E 013
Pole Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867 667 2270	**Pole** 1980 Assessment report #062055	Inferred 28.93 Mt Indicated 104.65 Mt High volatile bituminous C coal (CV = 23 297 kJ/kg)	*Deposit, inactive* 1977: exploration license acquired. 1978–80: mapping, drilling (777 m). 1980, 1983, 2005: area relicensed. 106E 021
Garlic Ring Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867 667 2270	**Garlic Ring** 1980 Assessment report #062055	Inferred 3.55 Mt Indicated 8.6 Mt High volatile bituminous C coal (CV = 23 297 kJ/kg)	*Deposit, inactive* 1977: exploration license acquired. 1980: drilling (484 m). 1980, 2005: area relicensed. 106E 032
Illtyd Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867 667 2270	**Illtyd** 1980 Assessment report #062055	Inferred 33.5 Mt Indicated 29.21 Mt Measured 120.93 Mt High volatile bituminous C coal (CV = 22 097 kJ/kg)	*Deposit, inactive* 1977: exploration license acquired. 1978–79: total of 3462 m of drilling; stratigraphic, metallurgical and feasibility studies. 1980, 1983, 2005: area relicensed. 106E 035
Pan Ocean Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867 667 2270	**West Illtyd** 1980 Assessment report #062055	Inferred 47.56 Mt High volatile bituminous C coal (CV = 23 297 kJ/kg)	*Deposit, inactive* 1977: exploration license acquired. 1978: staked mineral rights. 1980: drilling (1 000 m); mapping. 1980–2005: area relicensed. 106E 036
Deslaurier Philip Wheelton	**Deslaurier** 1980 Assessment report #062055	Inferred 44.8 Mt Indicated 60.83 Mt High volatile bituminous C coal (CV = 24 888 kJ/kg)	*Deposit, inactive* 1977: exploration license acquired. 1979–80: mapping, drilling (612 m). 1980, 1983, 2001: area relicensed. 106E 037
Spaceship Anderson Mining Company 3151 Third Avenue Whitehorse, Yukon Canada Y1A 1G1 Telephone: 867 667 2270	**Spaceship** 1980 Assessment report #062055	Inferred 13.96 Mt High volatile bituminous C coal (CV = 23 297 kJ/kg)	*Deposit, inactive* 1977: exploration license acquired. 1980: mapping; drilling (689 m). 1980, 2005: area relicensed. 106E 038

Yukon coal deposits, *continued*

Deposit Owner/optioned to/contact	Zone(s) Year resource-reserve was calculated/Reference	Mineral resource-reserve category‡/ Tonnage● grade/commodity	Status Yukon MINFILE no.**
Whitehorse Trough & Tintina Trench			
Division Coal Mountain Limited 1000–1055 Dunsmuir Street (V) Vancouver, British Columbia Canada V7X 1E5 (Syngenic Mid-west Coal)	**Division Mountain** 1990 Assessment report 23,990	Indicated 4 [illegible] High volatile bituminous B coal CV = 31,400 kJ/kg	Deposit not developed 1961 discovery. 1967 underground bulk sample (1,500 tons drilling, 1,000 tons bulk sampling and coal washing tests). 1990 mapping, sampling and coal washing tests. 2005 [illegible] 2006 permitting. 2007 [illegible] 114 O 03
Whiskey Lake	**Ross River block**	Inferred 470 000 t (0.50 m of cover) 740 000 t (0.100 m of cover) 1 000 000 t (0.150 m of cover)	Deposit not developed 1961 discovery. 1966 staked. 1980 drilling (4,500 m). 1986/89 produced ~ 87 000 t, drilling (5,970 m). 1992 produced 14 000 t. 105J 048
Tantalus Mine Yukon Territorial Government 1961–Ltd	**Tantalus mine**	[illegible]	[illegible] 1961 discovery. 1963 to production as open pit coal mine. 1969 to produced 110 000 t. 1982 to produced 109 000 t. 1987 mine sold to Anvil mine, mined to exhaustion. 115 O 001
South Tantalus	**Carmacks South**	Inferred 7 600 000 t High volatile bituminous B to meta-anthracite coal (CV = 23 300 kJ/kg)	Deposit inactive 1960 discovery. 1976 for mapping, drilling (1,677 m), trenching and geophysics. 115 O 001
Whitehorse Coal Coal Mountain Limited 1000–1055 Dunsmuir Street (V) Vancouver, British Columbia Canada V7X 1E5 (Syngenic Mid-west Coal)	**Underground** 1969 Assessment report 23,990 (all)	Estimated calculation 2 200 000 t Meta-anthracite coal (CV = 33 333 kJ/kg)	Deposit abandoned 1961 discovery. 1969 staked. 1981 underground coal development. 1984 coal washing tests. 1988 [illegible] 1989 mining. 2004 reclaimed. 115 O 001
	Open pit 1969 Assessment report 23,990 (all)	Estimated calculation for 1981 Meta-anthracite coal (CV = 33 [illegible] kJ/kg)	

‡Mineral resource-reserve category: resource and reserve figures have been compiled from a variety of historical data sources that in most cases predate the implementation of National Instrument 43-101. Therefore, only those figures indicated by an asterisk (*) comply with National Instrument 43-101.

The Yukon MINFILE is a computerized mineral inventory system that documents the exploration history and geology of metallic and istrial mineral and coal occurrences in the Yukon. The database contains detailed descriptions of 7686 separate mineral occurrences located throughout the Yukon.



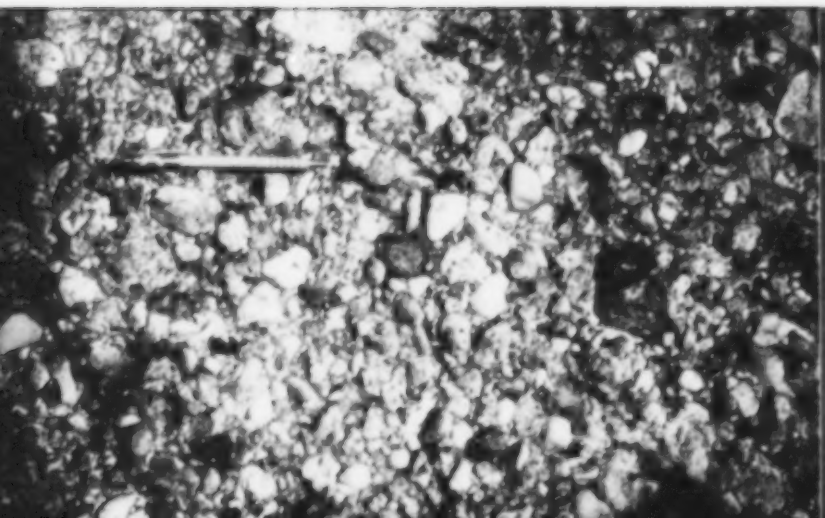
Chert-pebble conglomerate, typical of the coal-bearing Jura-Cretaceous Tantalus Formation. Coal was mined from this formation at the Tantalus mine in Carmacks for use in mineral production at the Anvil zinc-lead mine.

Yukon coal deposits, *continued*

Deposit Owner/operator & contact	Zone Est. resource/reserve and calculated reference	Mineral resource-reserve category‡/ Tonnage ● grade ● commodity	Status Yukon MINFILE no.**
Division Cash Minerals Limited 1016–510 Hastings Street W. Vancouver, British Columbia Canada V6B 1L8 Telephone: 604-668-2568	**Division Mountain** 1980 Assessment report #091834	Indicated 52.9 Mt High-volatile bituminous B coal (CV = 31 401 kJ/kg)	*Deposit, advanced exploration* 1983: discovery. 1971: road construction; over 11 000 m of drilling; environmental, archaeological and socioeconomic studies initiated in preparation for permitting. 2003: feasibility studies. 115I 011
Whiskey Lake	**Ross River block**	Inferred 170 000 t (0–50 m of cover) 740 000 t (0–100 m of cover) 1 100 000 t (0–150 m of cover)	*Open pit, past producer, inactive* 1964: discovery. 1966: staked. 1980: drilling (1520 m). 1986–89: produced 87 000 t, drilling (5 970 m). 1992: produced 14 000 t. 105F 048
Tantalus Mine Archer, Cathro and Associates (1981) Ltd.	**Tantalus mine**	n.a.	*Underground, past producer, inactive* 1903: discovery. 1924–48: produced an average of 4 543 t per year. 1948–67: produced 118 000 t. 1967–76: produced 116 000 t. 1967–76: produced 109 770 t. 1972: mine sealed due to fire; production shifted to surface. 115I 002
South Tantalus	**Carmacks South**	Inferred 780 633 t High-volatile bituminous B to meta-anthracite coal (CV = 22 5000 kJ/kg)	*Deposit, inactive* 1966: discovery. 1976–80: mapping, drilling (4572 m), trenching and geophysics. 115I 001
Whitehorse Coal Cash Minerals Limited 1016–510 Hastings Street W. Vancouver, British Columbia Canada V6B 1L8 Telephone: 604-668-2568	**Underground** 1969 Assessment report #060580 **Open pit** 1987 Assessment report #091902	Historical calculation 2 301 364 t Meta-anthracite coal (CV = 11 155 kJ/kg) Historical calculation 182 980 t Meta-anthracite coal (CV = 25 196 kJ/kg)	*Open pit past producer, active* 1898: discovery. 1900: staked. 1901: underground surface development. 1903: road construction. 1906–08: produced 8636 tonnes. 2004: reclaimed. 105D 013

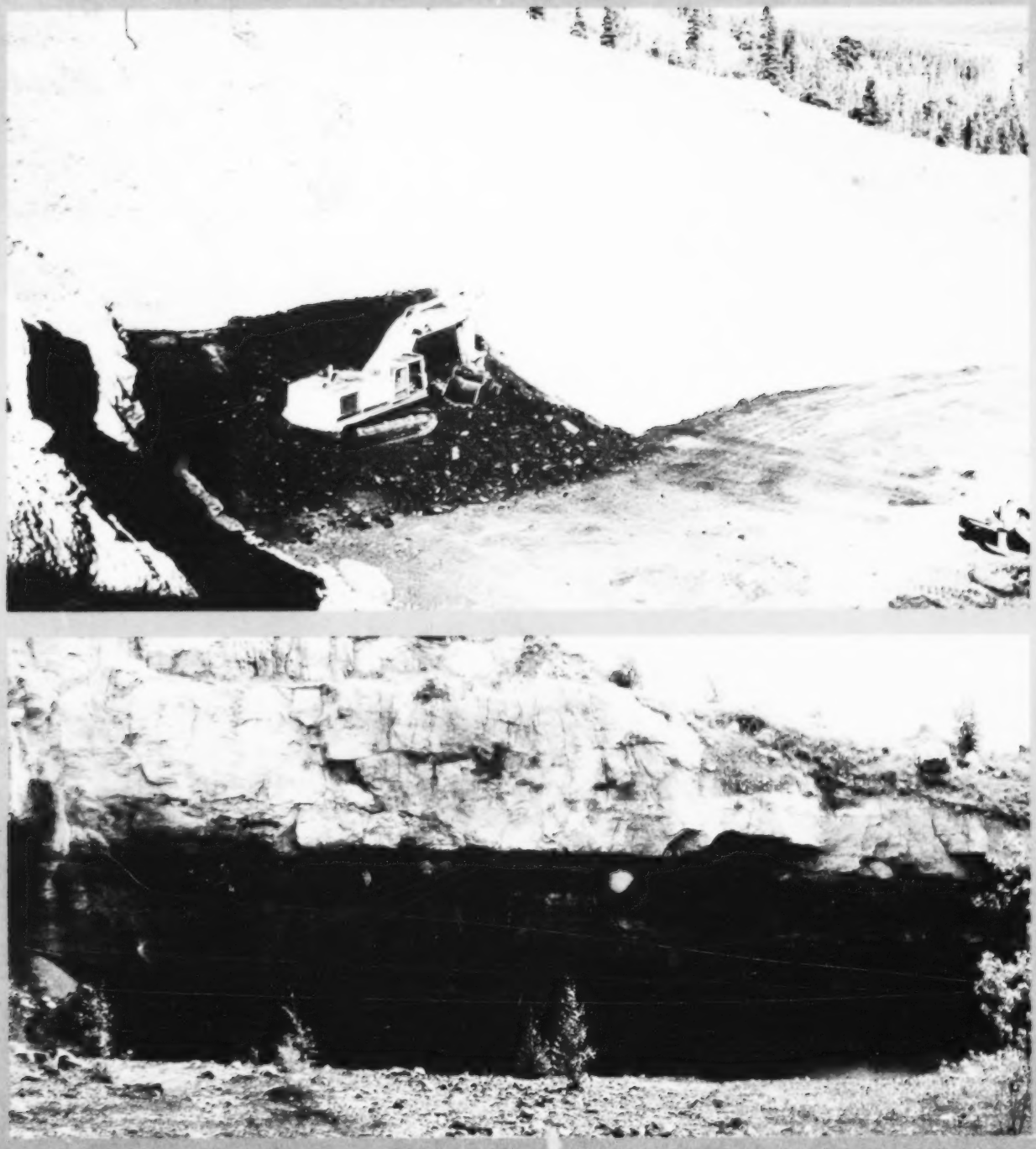
‡Mineral resource-reserve category: resource and reserve figures have been compiled from a variety of historical data sources that in most cases predate the implementation of National Instrument 43-101. Therefore, only those figures indicated by an asterisk (*) comply with National Instrument 43-101.

** The Yukon MINFILE is a computerized mineral inventory system that documents the exploration history and geology of metallic, industrial mineral and coal occurrences in the Yukon. The database contains detailed descriptions of 2606 separate mineral occurrences located throughout the Yukon.



Chert pebble conglomerate typical of the coal-bearing Jura-Cretaceous Tantalus Formation. Coal was mined from this formation at the Tantalus mine in Carmacks for use in mineral production at the Anvil zinc-lead mine.

Coal mining by Nadahinni Mining on the Whiskey Lake deposit near Ross River. This coal was being mined from Cretaceous to Eocene conglomerates along the Tintina Fault. It was used in milling at the Anvil mine.



The Whiskey Lake open-pit coal mine in operation in the early 1990s (top) and later view of the upper coal seam (bottom).

The Yukon's gold potential was first recognized during the great Klondike gold rush of 1898. Over 20 million ounces (600 million grams) of gold have been recovered from the Klondike placer mining district and production is ongoing. Several other areas of the Yukon, such as Mayo-McQuesten, Dawson Range, Livingstone Creek, Kluane and Whitehorse South, have historical and recent placer gold mining activity, but considerably less effort has been directed towards locating their hardrock sources.

In the Yukon, a variety of gold deposit styles are related to the complex Mesozoic and Cenozoic metamorphic, plutonic and volcanic history associated with the formation of the northern Canadian Cordilleran orogen. Orogenic gold veins formed in response to two events. The oldest veins, Jurassic in age, formed after peak metamorphism of the Yukon-Tanana Terrane, and their erosion likely contributed to the Klondike placer deposits. The youngest

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orogenic veins formed during Eocene metamorphism and uplift of more outboard terranes near the Coast Plutonic Complex. A number of smaller hardrock occurrences of this type have been found in association with placer gold-bearing creeks in west-central Yukon, but follow-up exploration has been limited and potential is high. It is notable that in neighbouring Alaska, the POGO deposit, an orogenic vein deposit, contains approximately 4 million ounces (100 million grams) gold at a grade of 16 g/t.

Intrusion-related gold ores in the Yukon are related to post-orogenic, reduced mid-Cretaceous plutons that intruded Selwyn Basin sedimentary rocks, and comprise the main part of the Tintina Gold Belt in the Yukon. Intrusion-related gold deposits include the Dublin Gulch and Brewery Creek deposits. An Alaskan example of this deposit type is the Fort Knox deposit, which contains 7 million ounces (200 million grams) gold, at a grade of 0.9 g/t.

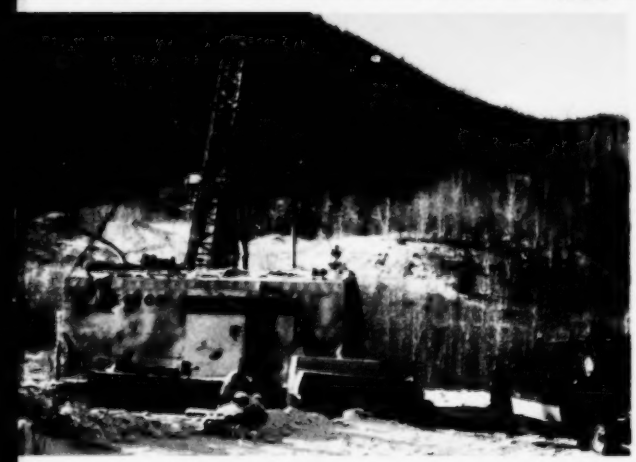
Epithermal gold ores in Yukon, such as the Mount Skukum and Grew Creek deposits, formed in association with Late Cretaceous to Eocene subaerial felsic volcanism and faults.

Differentiating between these different gold deposit models is an important first step for gold exploration targeting in Yukon. From comparisons with the Alaskan deposits, the magnitude of gold potential in Yukon is high.

ounces

Approximately 30,000 ounces (900 000 grams) of gold were produced from placer mining the creeks draining the Dublin Gulch, intrusion-related gold deposit. Trenching on the mountainside marks the location of the Eagle Zone deposit which hosts approximately 2 million ounces (60 million grams) of gold.

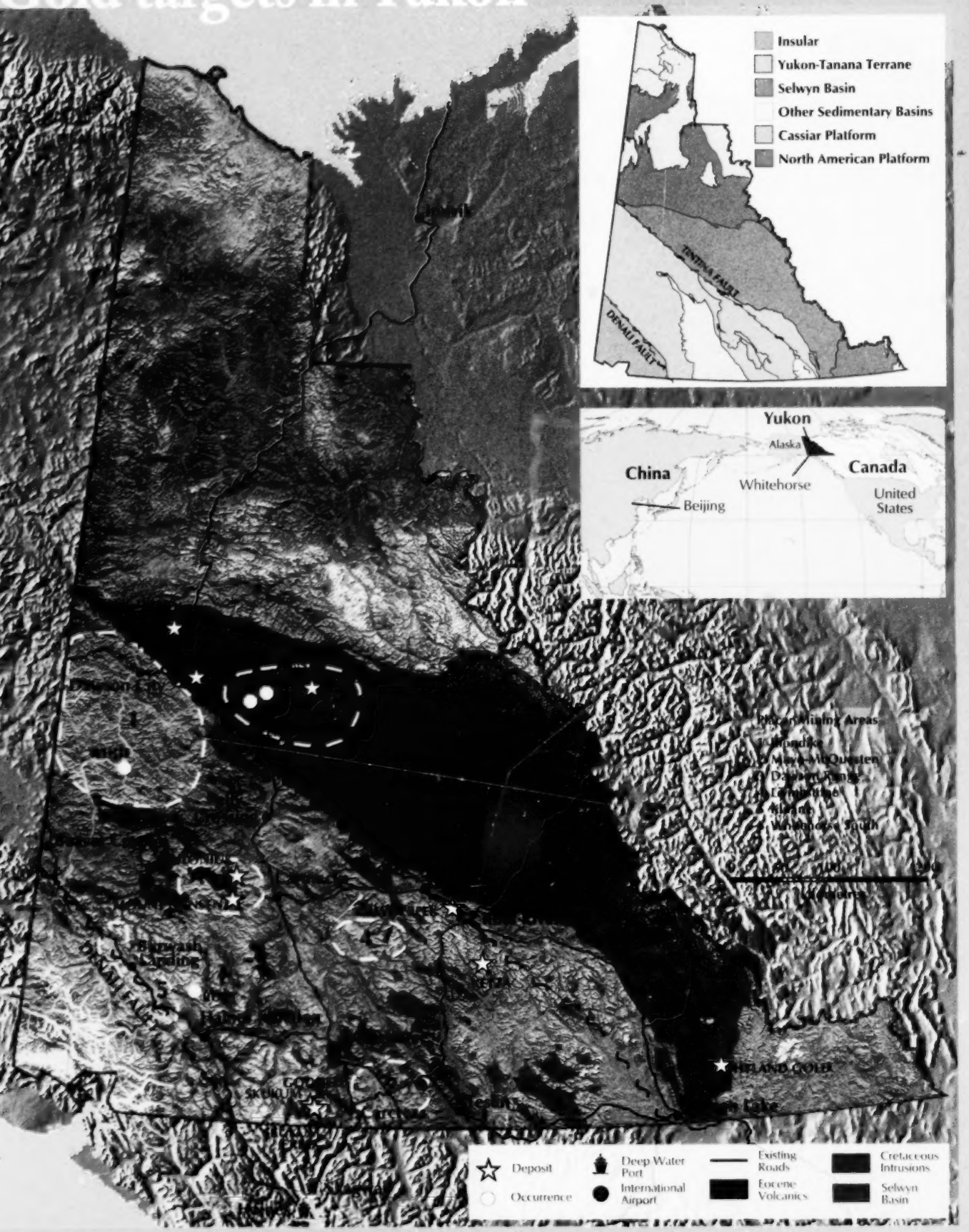
The Skukum Creek deposit is a silver-rich, gold-quartz-sulphide vein hosted in a caldera-bounding shear in an Eocene volcanic complex. Here it is shown during underground drilling that was conducted during the winter of 2005 by Tagish Lake Gold Corp.



Grew Creek is an low-sulphidation style epithermal gold deposit developed in Eocene felsic tuffs and related sedimentary rocks. Freegold Resources conducted a winter drilling program in 2005.

The Brewery Creek mine is an epizonal, intrusion-related deposit. The heap-leach mine operated from 1998 to 2002 producing 280,000 ounces (7.9 million grams) of gold from oxidized upper portions of several deposits. Current exploration is targeting the unoxidized refractory sulphide mineral potential of the property, which bears many similarities with the Donlin Creek deposit in Alaska.

Gold targets in Yukon



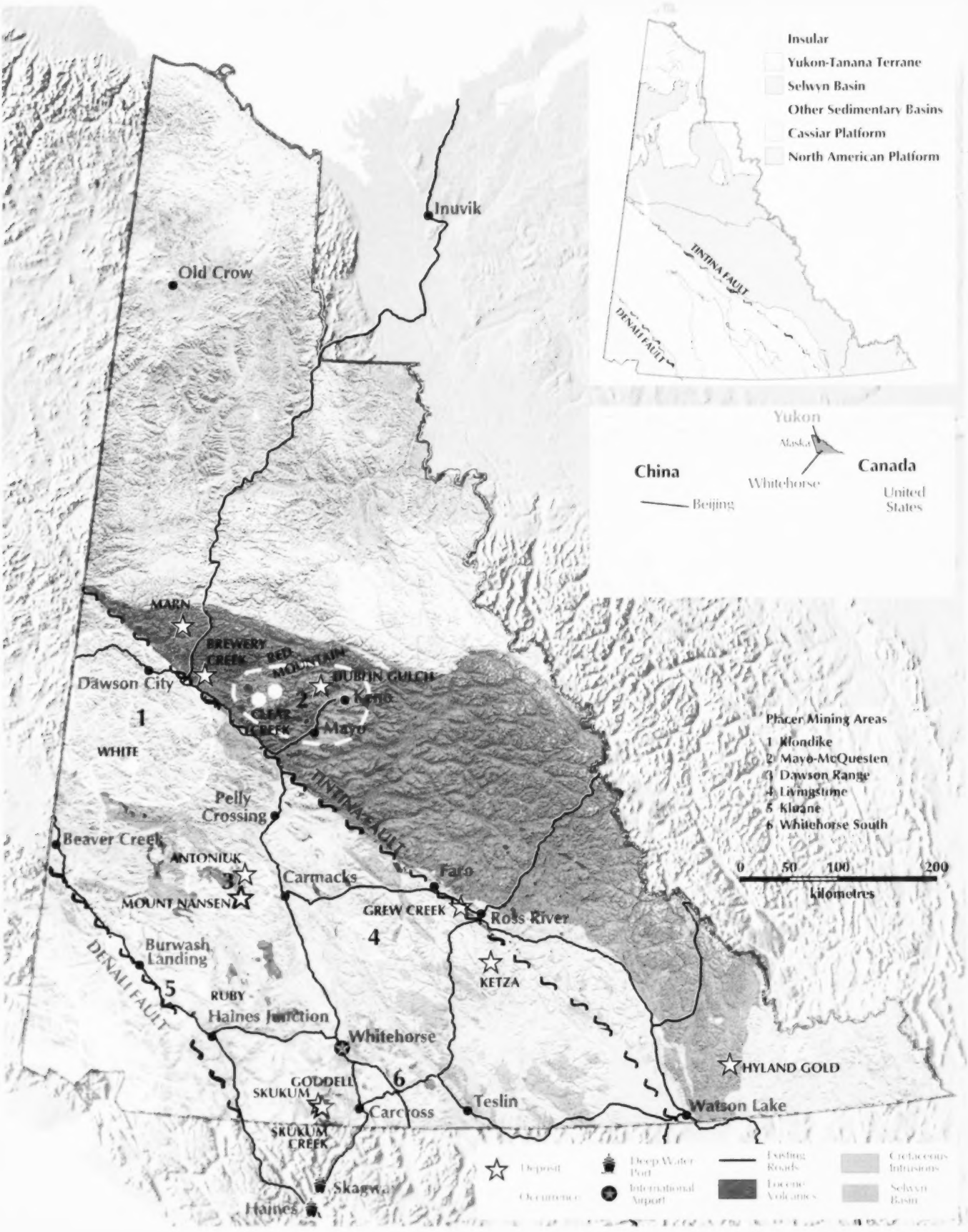
Orogenic gold veins.

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage@ grade/commodity	*Status* Yukon MINFILE no.**
Klondike District Various property owners	Some **small resources** are reported on several properties. Over 12 million ounces (340 million grams) produced from placer mining.	No known sizeable lode sources have been discovered in the Klondike Placer Mining District. Numerous small high grade vein occurrences occur in the district. Current exploration on some properties is targeting orogenic veins and deposit modeling.	*Active exploration.* Several companies are active in the district. Planned work includes bulk sampling and diamond drilling of several occurrences. 115N various
Lower Stewart River Drainage	The **Lower Stewart River drainage** which has produced approximately 300,000 ounces (8 million grams) of gold from 1978-2004.	This area has produced substantial quantities of placer gold in recent years but has received little exploration for hard rock deposits. Exploration has increased in the last couple years with orogenic veins being targeted.	*Active exploration, geochemistry, geophysics, prospecting.* Several properties at the grassroots stage of exploration. 115N-various
White Madalena Ventures 4460 Altee Avenue Burnaby, British Columbia Canada V5G 3R6 Telephone: 604-618-3433	**None**. The property is in the Lower Stewart River drainage which has produced approximately 300,000 ounces (8 million grams) of gold from 1978-2004.	Trenching has exposed two parallel quartz veins with traces of galena, chalcopyrite and visible gold. Veins vary from 1 to 5 m in width and are exposed over a 12 m length, open in every direction. Assays up to 50 g/t Au have been obtained from the veins.	*Active exploration, geochemistry, geophysics, trenching, drilling planned for 2005.* 1898: Rumoured discovery reported in this general area. 2003: Rediscovered by prospector Shawn Ryan. 2004: extensive geochemistry, geophysics, trenching, geological mapping program. 115O 012
Ruby John Peter Ross B1-2002 Centennial Street Whitehorse, Yukon Canada Y1A 3Z7 Telephone: 867-633-5101	**None**	Numerous narrow quartz-carbonate veins hosted in biotite and muscovite schist. Diamond drilling has intersected up to 2.83 g/t Au over 6.80 m.	*Available for option.* 1984: discovery. 1993: trenching. 1995: drilling. 2004: geology, geochemistry. 115H 047

‡Mineral resource-reserve category: resource and reserve figures have been compiled from a variety of historical data sources that in most cases predate the implementation of National Instrument 43-101. Therefore, only those figures indicated by an asterisk (*) comply with National Instrument 43-101.

** The Yukon MINFILE is a computerized mineral inventory system that documents the exploration history and geology of metallic, industrial mineral and coal occurrences in the Yukon. The database contains detailed descriptions of 2606 separate mineral occurrences located throughout the Yukon.

Exposed quartz vein on the White property. Veins on the property contain up to 50 g/t Au.


Insular
Yukon-Tanana Terrane
Selwyn Basin
Other Sedimentary Basins
Cassiar Platform
North American Platform
TINTINA FAULT
DENALI FAULT
Yukon
Alaska
China
Canada
Whitehorse
Beijing
United States
Inuvik
Old Crow
MARN
BREWERY CREEK
RED MOUNTAIN
DUBLIN GULCH
Keno
Mayo
Dawson City
1
2
WHITE
Pelly Crossing
Beaver Creek
ANTONIUK
3
MOUNT NANSEN
Carmacks
Faro
GREW CREEK
Ross River
4
Burwash Landing
DENALI FAULT
5
RUBY
Haines Junction
Whitehorse
KETZA
HYLAND GOLD
GODDELL
SKUKUM
6
Carcross
Teslin
Watson Lake
SKUKUM CREEK
Skagway
Haines
Placer Mining Areas
1 Klondike
2 Mayo-McQuesten
3 Dawson Range
4 Livingstone
5 Kluane
6 Whitehorse South
0 50 100 200
Kilometres
Deposit
Occurrence
Deep Water Port
International Airport
Existing Roads
Eocene Volcanics
Cretaceous Intrusions
Selwyn Basin

Orogenic gold veins.

Deposit Owner, optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage@ grade/ commodity	Status Yukon MINFILE no.**
Klondike District Various property owners	Some **small resources** are reported on several properties. Over 12 million ounces (340 million grams) produced from placer mining.	No known recoverable lode sources have been discovered in the Klondike Placer Mining District. Numerous small high-grade vein occurrences occur in the district. Current exploration on some properties is targeting these veins and deposit modelling.	*Active exploration* Several companies are active in the district. Planned work includes bulk sampling and diamond drilling at several occurrences. 115N various
Lower Stewart River Drainage	The **Lower Stewart River drainage** which has produced approximately 300,000 ounces (8 million grams) of gold from 1978-2004.	This area has produced substantial quantities of placer gold in recent years but has received little exploration for hard rock deposits. Exploration has increased in the last couple years with orogenic veins being targeted.	*Active exploration: geochemistry, geophysics, prospecting* Several properties at the grassroots stage of exploration. 115N various
White Madalena Ventures 1360 Alice Avenue Kamloops, British Columbia Canada V2C 3B6 Telephone: 604 682 3433	**None** The property is in the Lower Stewart River drainage which has produced approximately 300,000 ounces (8 million grams) of gold from 1978-2004.	Trenching has exposed two parallel quartz veins with traces of galena, chalcopyrite and visible gold. Veins vary from 1 to 6 m in width and are exposed over a 1.2 m length in every direction. Assays up to 50 g/t Au have been obtained from the veins.	*Active exploration: geochemistry, geophysics, trenching, drilling planned for 2005* 1893: Rumoured discovery reported in this general area. 2003: Redfern carried out prospector Shawn Ryan. 2004: extensive geochemistry, geophysics, trenching, geological mapping programs. 115O 011**
Ruby John Peter Ross BL 2002 Centennial Street Whitehorse, Yukon Canada Y1A 3Z7 Telephone: 867 633 5101	**None**	Numerous narrow quartz carbonate veins hosted in biotite and muscovite schist. Diamond drilling has intersected up to 2.33 g/t Au over 6.20 m.	*Available for option* 1964: discovery. 1995: trenching. 1995: drilling. 2004: geology, geochemistry. 115H 047

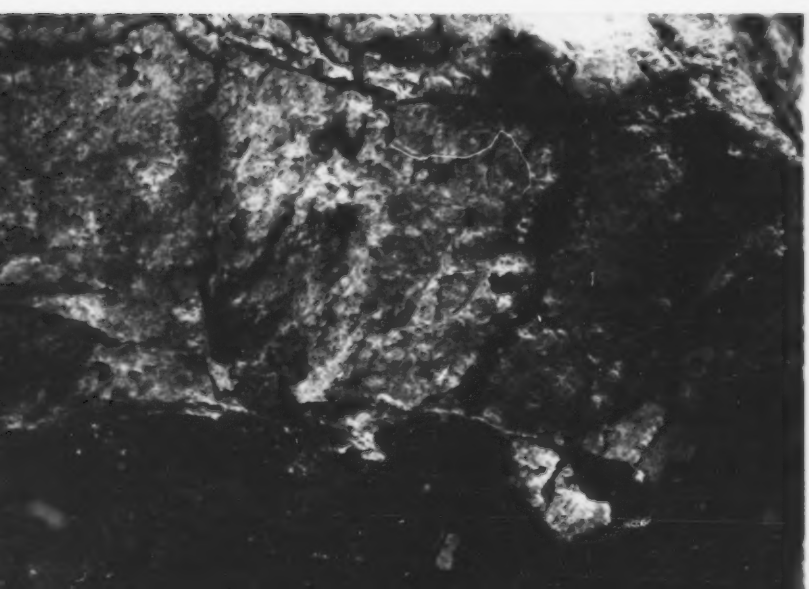
‡Mineral resource-reserve category: resource and reserve figures have been compiled from a variety of historical data sources that in most cases predate the implementation of National Instrument 43-101. Therefore, only those figures indicated by an asterisk (*) comply with National Instrument 43-101.

** The Yukon MINFILE is a computerized mineral inventory system that documents the exploration history and geology of metallic, industrial mineral and coal occurrences in the Yukon. The database contains detailed descriptions of 2606 separate mineral occurrences located throughout the Yukon.

Exposed quartz vein on the White property. Veins on the property contain up to 50 g/t Au.

Intrusion-related gold deposits.

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category$/ Tonnage@ grade/commodity	*Status* Yukon MINFILE no.**
Dublin Gulch StrataGold Corporation 701-475 Howe Street Vancouver, British Columbia Canada V6C 2B3 Telephone: 604-682-5474	**Eagle** 2004 Technical report by Snowden Mining Industry Consultants	Indicated* 55.228 Mt @ 0.934 g/t Au (COG of 0.5 g/t Au) Inferred* 17.255 Mt @ 0.743 g/t Au (COG of 0.5 g/t Au)	*Deposit, active exploration. Currently undergoing $5 million exploration program* 1996: metallurgical testing, engineering and environmental baseline studies. 1997: feasibility study. 1998: ongoing baseline studies, permitting under CEAA, environmental monitoring. Total of 27 700 m of drilling to date. 106D 025
Brewery Creek Quest Capital Corporation/ NovaGold Resources Incorporated 3454-1055 Dunsmuir Street Four Bentall Centre PO Box 49215 Vancouver, British Columbia Canada V7X 1K8 Telephone: 604-669-6227	**Pre-production** **Brewery Creek** (includes Bohemian, Big Rock, Fosters zones) **North Slope** 2003 Technical report by R.M. Diment and R.G. Simpson	Geological resource 17 145 988 tonnes @ 1.36 g/t Au (COG of 0.5 g/t) Indicated* 3 975 900 t @ 1.135 g/t Au (COG of 0.5 g/t Au) Inferred* 214 000 t @ 2.01 g/t Au (COG of 0.5 g/t Au)	*Open pit past producer, oxide deposits, reclamation, active exploration for sulphide deposits* 1987: discovery. 1988-91: completed 38 656 m of drilling. 1989-90: bulk sampling, metallurgical testing. 1992-93: test pitting, environmental studies. 1994: feasibility study, permitting. 1995: mine construction. Began heap leach production in Nov. 1996. Total gold production approximately 280,000 ounces (7.9 million grams). 2003: comprehensive compilation of property completed. 2004: drilling. 116B 160
Clear Creek StrataGold Corporation 701-475 Howe Street Vancouver, British Columbia Canada V6C 2B3 Telephone: 604-682-5474	**none**	Five adjacent intrusions host a number of intrusive-related gold occurrences. Geophysics indicate potential for a larger intrusion at depth.	*Active exploration* 1902: original staking related to discovery of placer gold in creeks. 1987: restaked. 1987-2004: various operators. 115P 011,012,013
Red Mountain Acero-Martin Exploration Inc. Box 43050 Burnaby, British Columbia Canada V5G 3H0 Telephone: 604-876-4476	**none**	Several areas of intrusive-related gold occurrences related to the Red Mountain intrusive stock. Numerous intersections of gold mineralization up to 125 m grading 1.14 g/t Au in recent drilling.	*Active exploration* 1923: original staking. Late 1920s: short adit. 1987: restaked. 1987-2005: various operators. 115P 006
Antoniuk FM Resources Corporation 1100-609 W Hastings Street Vancouver, British Columbia Canada V6B 4W4 Telephone: 604-331-1395	**Antoniuk** 1988 Assessment report #092161	Not defined 3 877 900 t @ 1.16 g/t Au	*Deposit, inactive* 1931: discovery. Over 5200 m of drilling. Cyanide leach tests showed that mineralization is amenable to heap leaching. 115I 111



Gold oxide ore from the Brewery Creek mine.

Intrusion-related skarn/replacement gold deposits.

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category$/ Tonnage@ grade/commodity	Status Yukon MINFILE no.**
Ketza YGC Resources Limited 207-304 Cordova Street West Vancouver, British Columbia Canada V6B 1E8 Telephone: 604 688 9427	**Pre-production oxide resource** **Manto style sulphide zones** 2004 report; resource estimates by Giroux Consultants Limited using a 1.0 g Au/t cutoff	195 000 t @ 18 g/t Au Measured* 1 210 000 t @ 3.43g/t Au Indicated* 3 040 000 t @ 2.67 g/t Au Inferred* 6 270 000 t @ 1.76 g/t Au	*Active exploration. $5 million exploration drilling program ongoing. Past producer, mill.* 1954: discovery. 1988-90: prelim bulk mining 1 112 000 t @ oz/t gold before closing in Sept. 1990. 1994-96: drilling (11 000 m), mapping, prospecting. 105E 019
	Shamrock zone 2004 report; resource estimates by Giroux Consultants Limited using a 1.0 g Au/t cutoff	Indicated* 2 590 000 t @ 2.19 g/t Au Inferred* 4 040 000 t @ 1.92 g/t Au	
Marn Canadian United Minerals incorporated P.O. Box 1260 Dawson City, Yukon Canada Y0B 1G0 Telephone: 867 993-5219	**Mini grid** 1986 Assessment report #091834	Historical calculation 226 796 t @ 8.56 g/t Au, 1% Cu, 0.1% W, 7.12 g/t Ag	*Deposit, active exploration, geophysics and geochemistry.* 1914: original discovery. A total of over 4400 m of drilling has been completed to date. 116B 147
Hyland Gold StrataGold Corporation /Northgate Minerals Corporation 701-475 Howe Street Vancouver, British Columbia Canada V6C 2B3 Telephone: 604 682-5374	**Main zone** 1991 Assessment report #094150	Historical calculation 3.1 Mt @ 1.1 g/t Au	*Deposit, active exploration.* 1954 (lic. discovery, intermittent exploration. 1989: winter road construction. Over 7500 m of drilling completed to date. Low grade oxide gold deposit with open pit potential. Current program is testing sulphide mineral potential. 095D 031

Gold-bearing quartz-carbonate-sulphide manto ore from the Ketza River mine. Close-up photo of rock sculpture by Rick Zuran.

Intrusion-related gold deposits.

Deposit Owner/optioned to/contact	Zone(s) Year resource/reserve was calculated/reference	Mineral resource/reserve category‡ Tonnage@ grade/commodity
Dublin Gulch	**Eagle**	
Brewery Creek Diamet Capital Corporation Stewart Gold Corporation Stewart Gold Resources Inc. Incorporated 1454 1055 Dunsmuir Street Four Bentall Centre PO Box 49215 Vancouver, British Columbia Canada V7X 1K8 Telephone: (604) 669-6227	**Pre-production**	
	Brewers Creek (includes Rebecca, Big Rock, Dobbin zones)	
	North Slope 2001 Resource report by R.M. Dimmell and R.G. Simpson	
Clear Creek Stewart Gold Corporation 501 – 700 West Pender Street Vancouver, British Columbia Canada V6C 1G8 Telephone: (604) 687-2038	**none**	
Red Mountain Arctic Metal Exploration Inc. Box 130749 Burnaby, British Columbia Canada V5H 3H0 Telephone: (604) 436-1426	**none**	
Antoniuk EM Resources Corporation 1030 – 409 Granville Street Vancouver, British Columbia Canada V6C 1T2 Telephone: (604) 331-1791	**Antoniuk** 1986 Assessment report 15,931(1)	

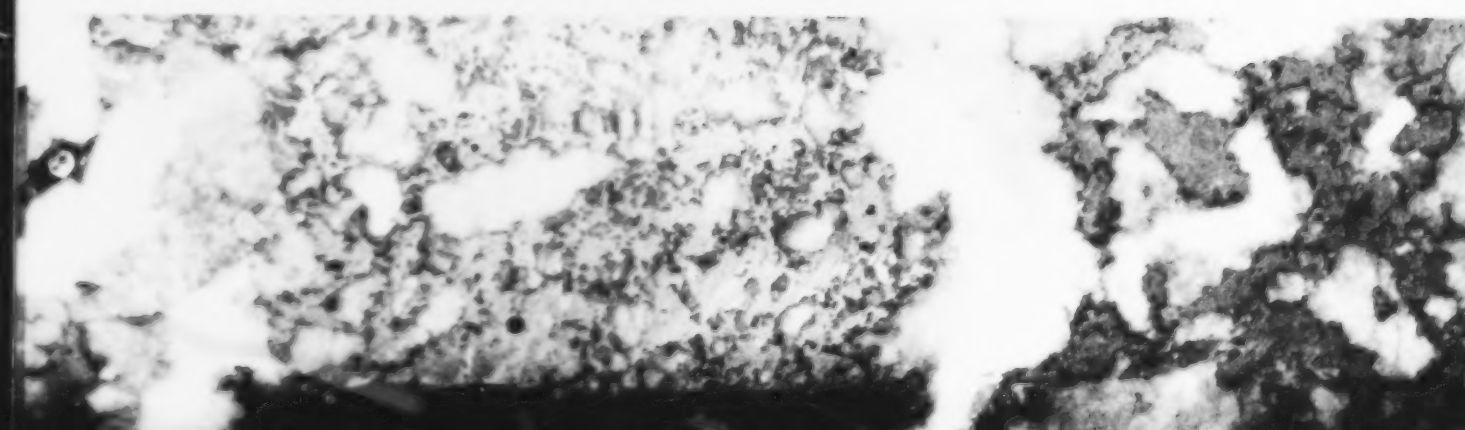
Status Yukon MINFILE no.[1]
Dublin Gulch
Brewery Creek Open-pit gold producer; south deposit, exploration; active exploration for adjacent deposits
Brewers Creek Open-pit gold producer; north deposit, exploration; active exploration for adjacent deposits
Clear Creek Active exploration
Red Mountain Active exploration
Antoniuk

Gold oxide ore from the Brewery Creek mine.

Intrusion-related skarn/replacement gold deposits.

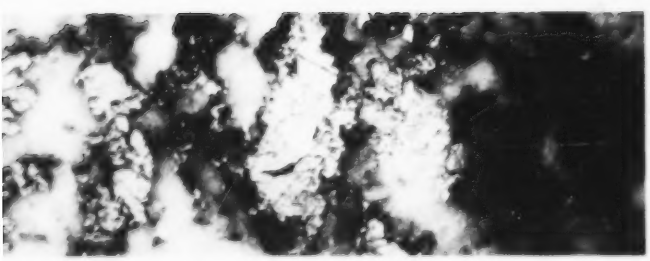
Deposit Owner, optioned to, contact	Zone(s) Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage# grade/commodity	Status Yukon MINFILE no.**
Ketza	**Pre-production oxide resource**	[illegible]	[illegible]
	Manto style sulphide zones	Measured [illegible] Indicated [illegible] Inferred [illegible]	[illegible]
	Shamrock zone	Indicated [illegible] Inferred [illegible]	
Mars Canadian United Minerals Incorporated P.O. Box 1360 Duncan, B.C. V9L 3Y2 Canada Telephone: (604) 748-1229	**Mint grid** 1986 Non-compliant (report 19950211)	Historical calculation 2,760,296 t @ 0.36 g/t Au, 1% Cu, 0.1% W, 2.17 g/t Ag	Deposit is in exploration stage (report not compliant) 1994: original discovery. A total of over 1,000 m of drilling has been completed to date. [illegible]
Hyland Gold [illegible]	**Main zone** 1995 Non-compliant (report 19961126)	Historical calculation [illegible]	[illegible] 1995: [illegible] discovery, intermittent exploration. 1995–1996: Diamond drilling [illegible] drilling. Completed [illegible]. Deposit type is gold-bearing quartz-carbonate-sulphide manto replacement.

Gold-bearing quartz-carbonate-sulphide manto ore from the Ketza River mine. Close-up photo of rock sculpture by Rick Zuran.



Epithermal vein/breccia gold deposits.

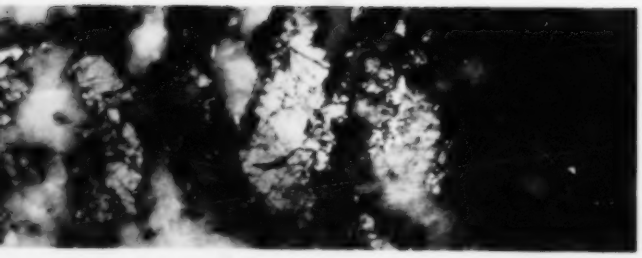
Deposit Owner/optioned to/contact	Zone(s) Year resource/reserve was calculated/reference	Mineral resource/reserve category‡/ Tonnage@ grade/commodity	Status Yukon MINFILE no.**
Skukum Eagle Lake Gold Corporation 2130-2133 Gordon Way Richmond, British Columbia Canada V6W 1P9 Telephone: (604) 277-1647	**Lake** 2001 Annual Information Form	Indicated 109 500 t @ 13.4 g/t Au	*Underground and producer; mill, active exploration* 1981–discovery; 1986 to 1988–produced 3 967 t @ 37 g/t Au from 501 Red Lenses mine, Eagle Zone, with an average grade of 13.0 g/t Au 2001–mapping, prospecting and sampling 105H 038
Goddell Eagle Lake Gold Corporation 2130-2133 Gordon Way Richmond, British Columbia Canada V6W 1P9 Telephone: (604) 277-1647	**Total** 2001 Engineering report by W.D. Ree, Minetech International Ltd.	Indicated 320 000 t @ 11.02 g/t Au Inferred 280 000 t @ 9.21 g/t Au	*Deposit; active exploration* 1986–discovery, trenching and shaft sink; 1985/90–geophysics, geochemistry, drilling (6374 m); 1991/96–drilling (3642 m); 1996/97–drove camp and carried out underground drilling (6946 m); 2001–drilling (800 m) 105H 025
Skukum Creek Eagle Lake Gold Corporation 2130-2133 Gordon Way Richmond, British Columbia Canada V6W 1P9 Telephone: (604) 277-1647	**Total (Rainbow and Kuhn zones)** 2001 Engineering report by W.D. Ree, Minetech International Ltd.	Measured 360 000 t @ 6.17 g/t Au (2.17 g/t Ag) Indicated 640 000 t @ 6.34 g/t Au (8.7 g/t Ag) Inferred 980 000 t @ 6.3 g/t Au (7.7 g/t Ag)	*Deposit; active exploration; producer (re-opened)* 1922–discovery; 1965–88–extensive surface and underground exploration and development. Bulk sample tests were positive. Metallurgical tests showed recoveries of 95% for Au and 94.5% for Ag; 1996/98–underground and surface drilling; 2000–compilation of exploration data; 2001–surface drilling at Rainbow Zone; 2002–underground drilling; 2001–2003–extended access tunnel, underground drilling. 105H 022
Grew Creek All Canso Treegold Ventures Limited 2300-1500 West 41st Avenue Vancouver, British Columbia Canada V6M 2A1 Telephone: (604) 685-1870	**Main** 1997 Assessment report #098627, p. 20	Not defined 547 300 t @ 5.27 g/t Au Resource currently being recalculated based on 2004 drilling program	*Deposit; active exploration; drilling 2004–2005 based on new geologic interpretation of deposit* 1984–discovery. Over 12 000 m of drilling completed to date. Current drilling program is evaluating a new interpretation of the structural controls on the mineralized vein system within the Main zone and other nearby targets. 105K 009
Mount Nansen Reconnaissance Micon International Limited Senior Vice President Precambrian Chapters III P Suite 700, 2 Bloor Street Vancouver, British Columbia Canada V6E 3R7 Telephone: (604) 890-3671 michael.gaynor@micon-i.com	**Hueslis** 1989 Assessment report #093701 **Webber** 1989 Assessment report #093701 **Flex** 1995 Assessment report #093367 **Brown-McDade** 1989 Assessment report #093701 Assumes 1.42 m minimum mining width and cutoff grade of 6.8 g/t Au	Not defined 483 727 t @ 11.4 g/t Au (263 g/t Ag) Not defined 40 574 t @ 10.9 g/t Au (61 g/t Ag) Indicated 169 977 t @ 6.1 g/t Au (234 g/t Ag) Inferred 30 661 t @ 5.3 g/t Au (33 g/t Ag) Not defined (originally reported as a probable reserve) 193 700 t @ 13.47 g/t Au (88 g/t Ag)	*Deposit; past producer; mill, active exploration* 1983–discovery; 1986 to 1993–produced 3 967 t @ 37 g/t Au from 501 Red Lenses mine, Eagle Zone, with an average grade of 13.0 g/t Au; 2001–mapping, prospecting and sampling. 105H 038 *Deposit; active exploration* 1986–discovery, trenching and shaft sink; 1985/90–geophysics, geochemistry, drilling (6374 m); 1991/96–drilling (3642 m); 1996/97–drove camp and carried out underground drilling (6946 m); 2001–drilling (800 m). 105H 025 *Deposit; active exploration; producer (re-opened)* 1922–discovery; 1965–88–extensive surface and underground exploration and development. Bulk sample tests were positive. Metallurgical tests showed recoveries of 95% for Au and 94.5% for Ag; 1996/98–underground and surface drilling; 2000–compilation of exploration data; 2001–surface drilling at Rainbow Zone; 2002–underground drilling; 2001–2003–extended access tunnel, underground drilling. 105H 022 *Deposit; active exploration; drilling 2004–2005 based on new geologic interpretation of deposit* 1984–discovery. Over 12 000 m of drilling completed to date. Current drilling program is evaluating a new interpretation of the structural controls on the mineralized vein system within the Main zone and other nearby targets. 105K 009 *Deposit; past producer; mill, active exploration* 1983–discovery; 1986 to 1993–produced 3 967 t @ 37 g/t Au from Webber, Hueslis, 1995–expansion and rehabilitation of existing mill; drilling of Flex and Hueslis zones; 1994/95–Galego storage study; road building, tailings dam, capping, construction and rehabilitation of mill and mine buildings; 1996–received a Class A water license; produced first gold at the end of year to start 2001 day; 1997–stripping, trenching, geochemistry of Flex zone which was slated for production after depletion of the adjoining Brown-McDade pit; 1999–mining ceased due to mine conditions. 115J 006 (096)



Skukum Creek gold-bearing quartz-sulphide vein. Close-up photo of rock sculpture by Rick Zuran.

Epithermal vein/breccia gold deposits.

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage● grade/commodity	*Status* Yukon MINFILE no.**
Skukum Tagish Lake Gold Corporation 2130-21331 Gordon Way Richmond, British Columbia Canada V6W 1J9 Telephone: 604-273-6477	**Lake** 2003 Annual Information Form	Indicated 109 200 t @ 13.4 g/t Au	*Underground past producer, mill, active exploration.* 1981: discovery. 1986 to 1988: produced 2 962 227 g Au from 203 461 tonnes of ore from Cirque Zone, with an average grade of 13.0 g/t Au. 2001: mapping, prospecting and sampling. 105D 158
Goddell Tagish Lake Gold Corporation 2130-21331 Gordon Way Richmond, British Columbia Canada V6W 1J9 Telephone: 604-273-6477	**Total** 2003 Engineering report by W.D. Roy, MineTech International Ltd.	Indicated* 320 000 t @ 11.02 g/t Au Inferred* 280 000 t @ 9.21 g/t Au	*Deposit, active exploration.* 1906: discovery, trenching and short adit. 1985-90: geophysics, geochemistry, drilling (6373 m). 1995-98: drilling (2842 m). 1996-97: drove ramp and carried out underground drilling (6946 m). 2003: drilling (800 m). 105D 025
Skukum Creek Tagish Lake Gold Corporation 2130-21331 Gordon Way Richmond, British Columbia Canada V6W 1J9 Telephone: 604-273-6477	**Total (Rainbow and Kuhn zones)** 2003 Engineering report by W.D. Roy, MineTech International Ltd.	Measured* 160 000 t @ 6.52 g/t Au, 257 g/t Ag Indicated* 640 000 t @ 6.84 g/t Au, 203 g/t Ag Inferred* 90 000 t @ 6.53 g/t Au, 225 g/t Ag	*Deposit, active exploration to increase resources.* 1922: discovery. 1985-88: extensive surface and underground exploration and development. Bio-leach tests were positive. Metallurgical tests showed recoveries of 92% for Au and 94.5% for Ag. 1996-98: underground and surface drilling. 2000: compilation of exploration data. 2001: surface drilling of Ridge Zone. 2002: underground drilling. 2004-2005: extended access tunnel, underground drilling. 105D 022
Grew Creek Al Carlos/Freegold Ventures Limited 2303 41st Avenue West Vancouver, British Columbia Canada V6M 2A3 Telephone: 604-685-1870	**Main** 1997 Assessment report #093627, p.20.	Not defined 527 360 t @ 5.27 g/t Au Resource currently being recalculated based on 2004 drilling program.	*Deposit, active exploration, drilling 2004, 2005 based on new geologic interpretation of deposit.* 1984: discovery. Over 32 000 m of drilling completed to date. Current drilling program is evaluating a new interpretation of the structural controls on the mineralized vein system within the Main zone and other nearby targets. 105K 009
Mount Nansen *In receivership* Micheal Vermette, Senior Vice President PricewaterhouseCoopers LLP Suite 700, 250 Howe Street Vancouver, British Columbia Canada V6C 3S7 Telephone: 604-806-7675 michael.j.vermette@ca.pwc.com	**Huestis** 1989 Assessment report #092701 **Webber** 1989 Assessment report #092701 **Flex** 1995 Assessment report #093365 **Brown-McDade** 1989 Assessment report #092701 Assumes 1.52 m minimum mining width and cutoff grade of 6.8 g/t Au	Not defined 85 727 t @ 14 g/t Au, 28.3 g/t Ag Not defined 58 524 t @ 10.9 g/t Au, 61.1 g/t Ag Indicated 69 977 t @ 6 g/t Au, 23.4 g/t Ag Inferred 38 615 t @ 5.8 g/t Au, 13.3 g/t Ag Not defined (originally reported as a probable reserve) 193 706 t @ 14.47 g/t Au, 100 g/t Ag	*Deposit, past producer, mill, in receivership.* 1945: discovery. 1968-69, 1976: production from Webber, Huestis. 1995: expansion and rehabilitation of existing mill, drilling of Flex and Huestis zones. 1994-95: tailings storage study, road building, tailings dam stripping, construction and rehabilitation of mill and mine buildings. 1996: received a class A water license; production rates at the end of year reached 500 t/day. 1997: stripping, trenching, geochemistry of Flex zone which was slated for production after depletion of the adjoining Brown-McDade pit. 1999: mining ceased due to non-compliance. 115I 064,065



Skukum Creek gold-bearing quartz-sulphide vein. Close-up photo of rock sculpture by Rick Zuran.

Iron

The Yukon has had very little exploration attention directed towards iron deposits, even though it is host to the Crest deposit, one of the largest known iron deposits in North America. Iron is also found in several other interesting occurrences and deposits mostly in the northern Yukon.

The Crest iron deposit in is an Algoma-type iron formation hosted in Upper Proterozoic glacial-marine sedimentary rocks. Historical mineable reserves are over 3 billion tonnes grading 43.8% Fe, 26.6% SiO_2 and 0.34% phosphorus, with a stripping ratio of less than 1:1. Geological mapping suggests the deposit is much larger, and a regional reserve is estimated to exceed 18.6 billion tonnes.

Similar stratigraphy occurs discontinuously from the eastern Wernecke Mountains (northeast of Dawson City) to the southeastern Mackenzie Mountains. This southeasterly trending belt, 630 km long and up to 40 km wide, lies obliquely across the Yukon/Northwest Territories boundary. Recent airborne geophysical surveys in this area may be helpful at further defining the favourable stratigraphy.

YUKON GEOLOGICAL SURVEY

Yukon Government

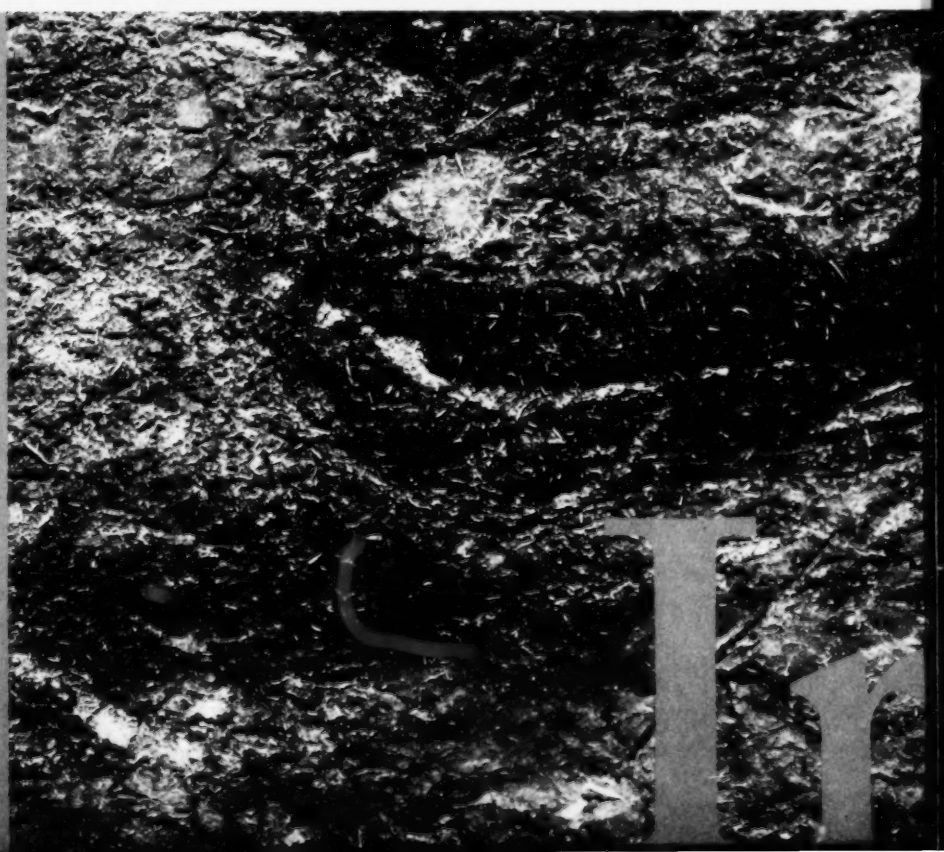
Another Algoma-type iron formation occurrence is Shell Creek where Precambrian- to Cambrian-aged sedimentary and volcanic rocks host magnetite iron formation up to 60 m thick. Airborne magnetic surveys have traced the iron formation for a strike length of 8 km. The deposit has never been drilled or fully evaluated for its iron potential.

Also in the northern Yukon, an oolitic magnetite deposit occurs at the contact between Permian clastic rocks and Jurassic to Lower Cretaceous recessive black shale. This deposit, known as the Alto, has been estimated to have a geologic resource of 27 million tonnes of 55% Fe.

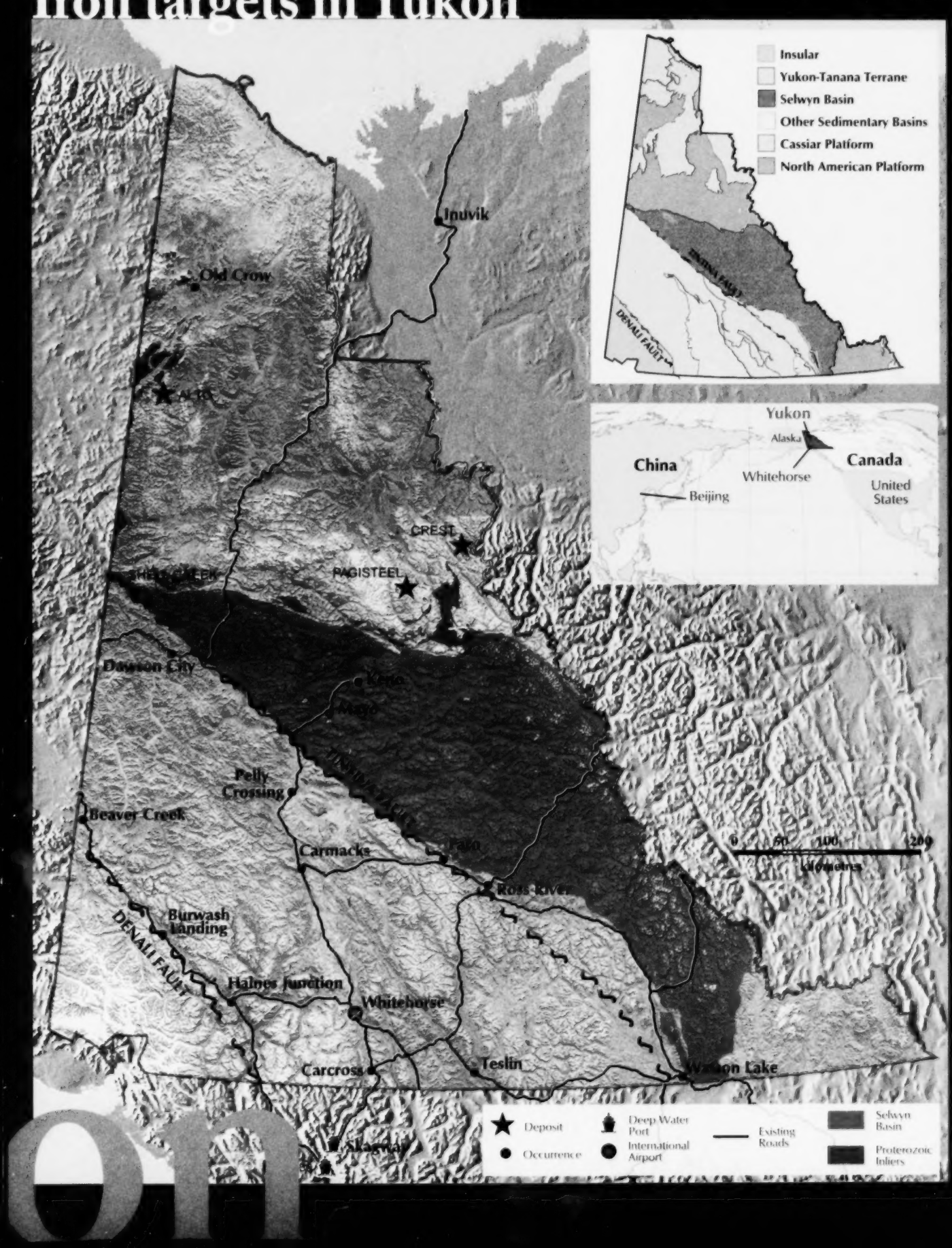
The large, numerous and widespread Wernecke Breccias have been explored primarily for copper, gold and uranium, but they also have iron potential. The Wernecke Breccias occur in Middle Proterozoic sedimentary rocks in northern Yukon and have been compared to the giant Olympic Dam deposit in Australia. Deposits of this type may exceed 1000 Mt grading greater than 20 % Fe, and frequently are in the 100 to 500 Mt range. The most notable iron deposit of this type in the Yukon is the Pagisteel occurrence, which contains 9 million tonnes of over 29% Fe. The indication that Wernecke Breccias do host iron deposits, makes them an exploration target for additional iron resources.

tonnes

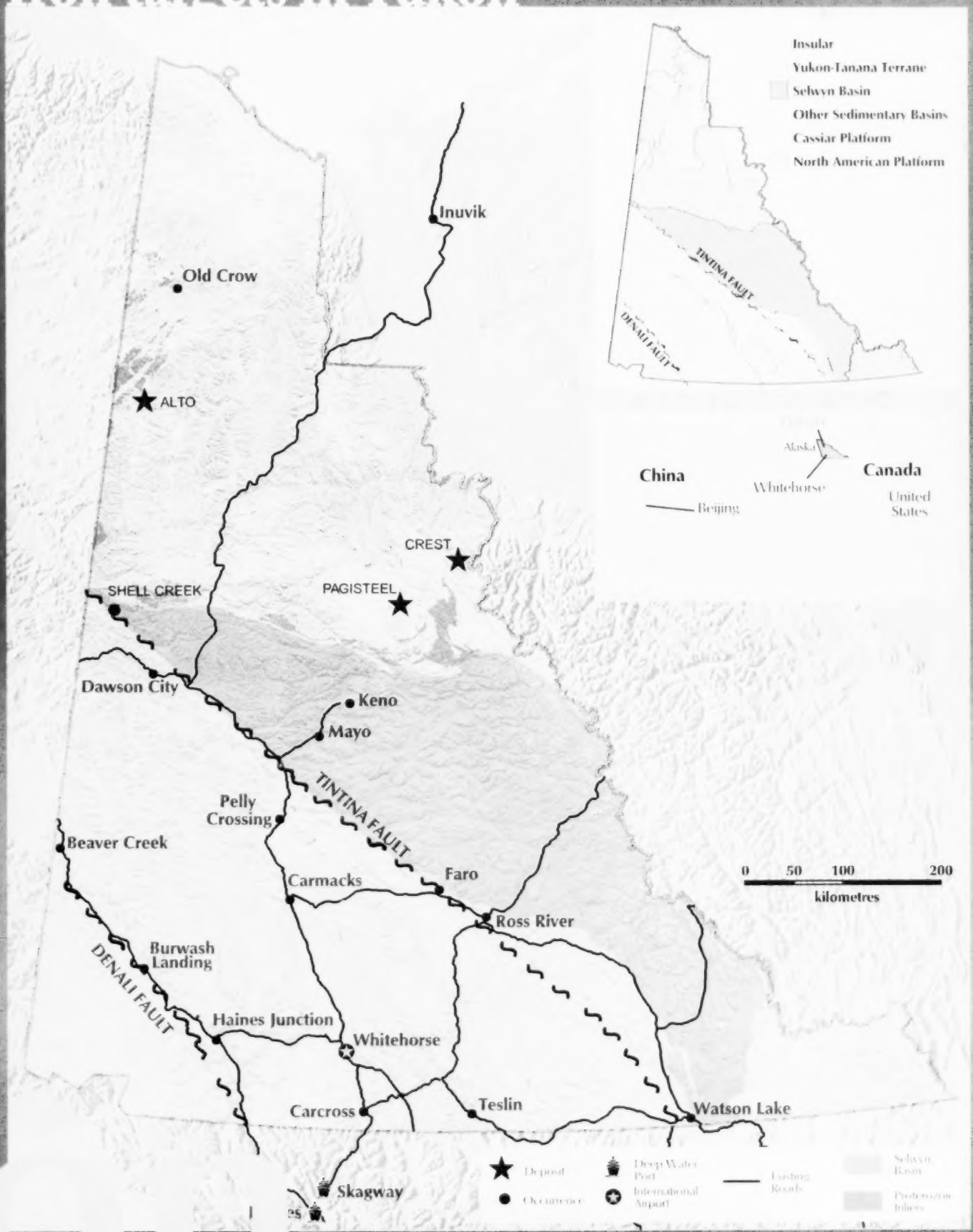
Iron formation from the Crest deposit in the Snake River area of northeastern Yukon. This rock sample contains rhythmically banded jasper and hematite.



...iron targets in Yukon



Iron targets in Yukon



Yukon iron deposits

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage@ grade/commodity	*Status* Yukon MINFILE no.**
Crest Electron Canada Limited W.H. Armstrong 400 5th Avenue SW Calgary, Alberta Canada T2P 0L7 Telephone: 403-234-5200	**Crest** 1964 Assessment report #017964	Historical calculation mineable reserve 3 175 142 kt @ 33.8% Fe 26.6% SiO2, 0.34% P Ca Geological resource 18 billion tonnes	*Deposit inactive* 1961: discovery. 1963 64: 2 bulk samples totaling 1104 shipped out for metallurgical testing; feasibility study completed. Stripping ratio less than 1:1 106J 088
Alto Eagle Plains Resources 200-16 11th Avenue S Cranbrook, British Columbia Canada V1C 2P1 Telephone: 250-426-0749	Assessment report #090158	Massive oolitic magnetite. Geologic estimate from surface exposure 27 million tonnes @ 55% Fe	*Inactive* 1973: discovery. 1973-1977: geologic mapping, sampling. 1996: restaked. 116K 005
Shell Creek Logan Resources 570-789 Pender Street W Vancouver, British Columbia Canada V6C 1H2 Telephone: 604-689-0299	**none**	Algoma type magnetite-chert iron formation. Two bands of magnetite estimated at 23 and 61 m thickness; geophysics indicates iron formation over 8 km long.	*Active for associated gold mineralization* 1957: discovered. 1961: various geological work. 1968-1970: bulk sampling. 2002: restaked. 116C 029
Pagisteel Cash Minerals/Twenty Seven Capital Corporation 1016-510 West Hastings Street Vancouver, British Columbia Canada V6B 1L8 Telephone: 604-688-2568	1967 company estimate	Proterozoic aged "Wernecke Breccia" 9 100 000 tonnes grading 29.2% soluble iron	*Active exploration for uranium potential, 2005 drilling* 1962: discovered. 1964-1969: transportation studies, diamond drilling. 1980, 1989: restaked. 2004: geophysics. 106D 049

‡Mineral resource-reserve category: resource and reserve figures have been compiled from a variety of historical data sources that in most cases predate the implementation of National Instrument 43-101. Therefore, only those figures indicated by an asterisk (*) comply with National Instrument 43-101.

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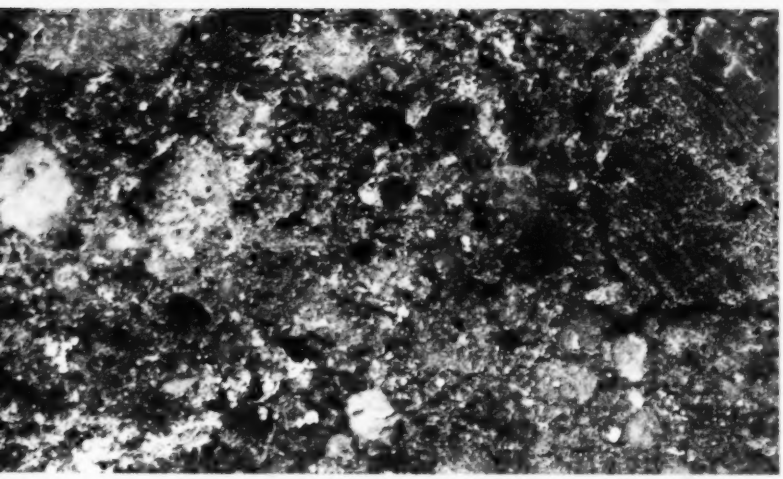

An example of Wernecke Breccia from a property north of Dawson City. These Proterozoic breccias stretch across the northern Yukon and contain potential for sizeable iron deposits.

Yukon iron deposits

Deposit Owner/optioned to/contact	Deposit Year resource reserve was	Deposit Geology‡	Deposit Year initially staked
Crest Chevron Canada Limited W.H. Armstrong 500-5th Avenue SW Calgary, Alberta Canada T2P OL7 Telephone: 403-234-5280	**Crest** 1964 Assessment report #017964	Historical calculation mineable reserve 3 175 147 kt @ 43.8% Fe, 26.6% SiO_2, 0.34% P_2O_5 Geological resource 18 billion tonnes	*Deposit, inactive.* 1961: discovery. 1963-64: 2 bulk samples totaling 110 t shipped out for metallurgical testing; feasibility study completed. Stripping ratio less than 1:1. 106E 008
Alto Eagle Plains Resources 200-16 11th Avenue S Cranbrook, British Columbia Canada V1C 2P1 Telephone: 250-426-0749	Assessment report #090158	Massive oolitic magnetite. Geologic estimate from surface exposure 27 million tonnes @ 55% Fe	*Inactive.* 1973: discovery. 1975-1977: geologic mapping, sampling. 1996: restaked. 116K 005
Shell Creek Logan Resources 570-789 Pender Street W Vancouver, British Columbia Canada V6C 1H2 Telephone: 604-689-0299	**none**	Algoma-type magnetite-chert iron formation. Two bands of magnetite estimated at 23 and 61 m thickness; geophysics indicates iron formation over 8 km long.	*Active for associated gold mineralization.* 1957: discovered. 1961: various geological work. 1968-1970: bulk sampling. 2002: restaked. 116C 029
Pagisteel Cash Minerals/Twenty Seven Capital Corporation 1016-510 West Hastings Street Vancouver, British Columbia Canada V6B 1L8 Telephone: 604-688-2568	1967 company estimate	Proterozoic-aged "Wernecke Breccia" 9 100 000 tonnes grading 29.2% soluble iron	*Active exploration for uranium potential, 2005 drilling.* 1962: discovered. 1964-1969: transportation studies, diamond drilling. 1980, 1989: restaked. 2004: geophysics. 106D 049

‡Mineral resource-reserve category: resource and reserve figures have been compiled from a variety of historical data sources that in most cases predate the implementation of National Instrument 43-101. Therefore, only those figures indicated by an asterisk (*) comply with National Instrument 43-101.

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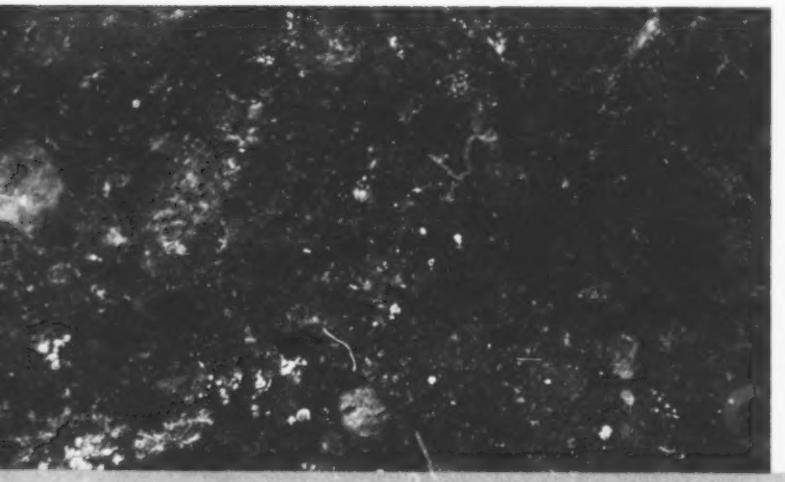


An example of Wernecke Breccia from a property north of Dawson City. These Proterozoic breccias stretch across the northern Yukon and contain potential for sizeable iron deposits.

Canada's Yukon

Tungsten

Yukon and adjacent Northwest Territories have an extraordinary tungsten endowment. The region has a resource of approximately 1 million tonnes of contained metal, representing an estimated 20% of known global tungsten. Most of the Yukon's significant deposits are scheelite-bearing skarns developed at contacts between mid-Cretaceous felsic plutons and Lower Paleozoic limestone. The limestones occur near the transition from the Selwyn Basin to the Paleozoic carbonate platform. Other significant deposit types include porphyries and veins.

Cantung is a scheelite-bearing skarn with remaining reserves of 771,000 tons (699 000 tonnes) grading 1.75% WO_3 and a historical production of approximately 30 000 tonnes of tungsten metal. The Mactung skarn deposit is one the world's largest, with measured and indicated reserves of 13.7 million tonnes at 0.95% WO_3. The Logtung deposit has a geological resource of 229 million tonnes grading 0.104% WO_3 with 0.05% MoS_2 and is among the world's largest intrusion-hosted tungsten-molybdenum deposits.

Yukon Geological Survey

Yukon Government

Tungsten

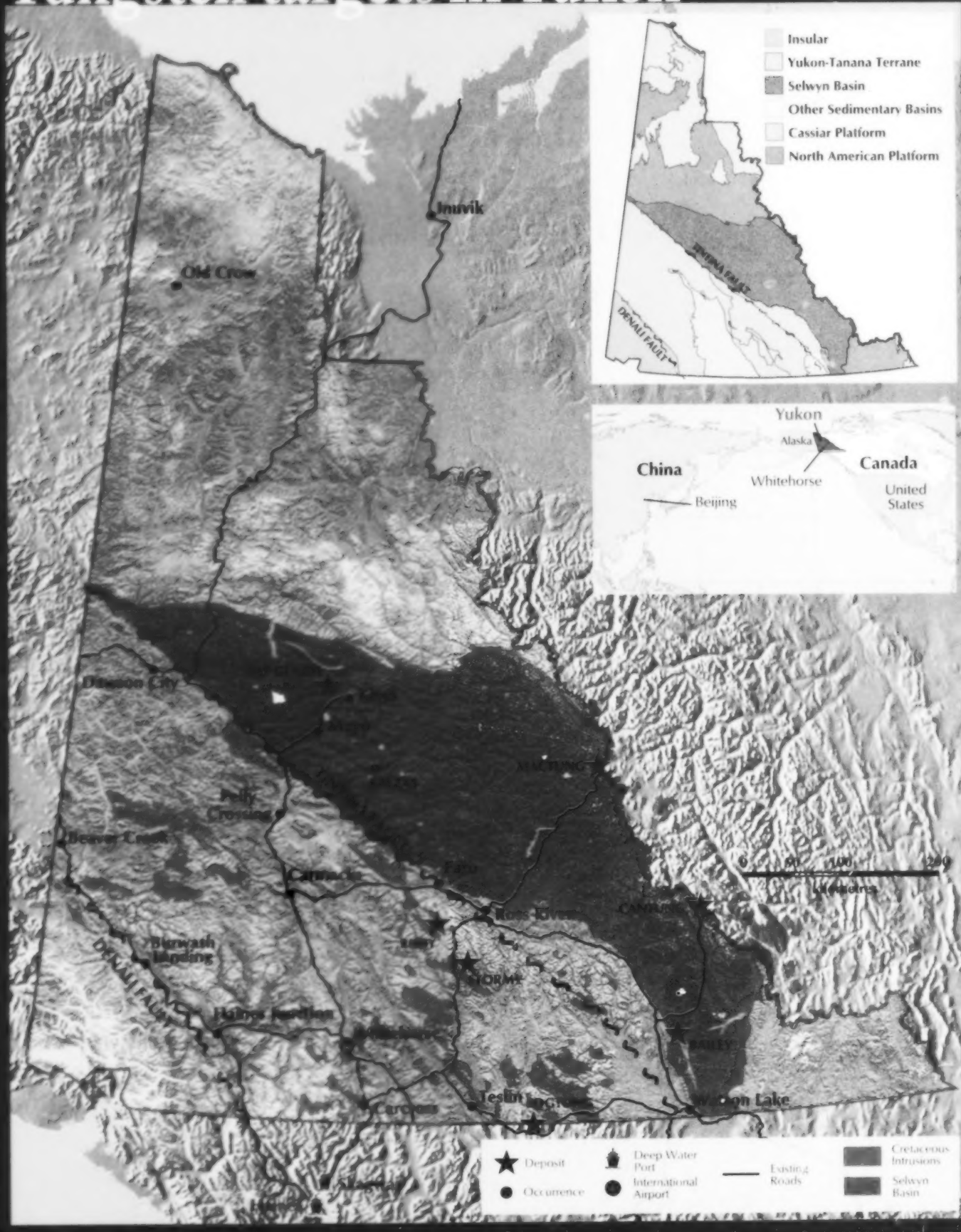
Given the widespread exposure of mid-Cretaceous granites and Lower Paleozoic carbonate rocks, the large tungsten reserves outlined, and the presence of several inadequately tested occurrences, there is very high potential for the discovery of additional tungsten deposits in the Yukon.

Skarn/replacement tungsten deposits.

Cantung North American Tungsten Corporation Limited 11-1155 Melville Street Vancouver, British Columbia Canada V6E 4C4 Telephone: 604-682-1333 www.northamericantungsten.com		Current minable reserves: 771 000 tons (669 000 tonnes) at a grade of 1.75% WO_3 Total reserves prior to production were 1.1 million tonnes @ 2.5% WO3 in the original deposit. E zone: 4.2 million tonnes @ 1.6% WO3	*Active mine: exploration* 1954: discovered. 1962: production started. 1986: closed. 2002-2003: reopened. 2005: reopening. Located in Northwest Territories; access to minesite from the Yukon.
Bailey North American Tungsten Corporation Limited 11-1155 Melville Street Vancouver, British Columbia Canada V6E 4C4 Telephone: 604-682-1333	**B zone** 1988 Assessment report #092120	Historical calculation 404 600 tonnes @ 1% WO_3	*Deposit, inactive.* 1963: discovery. Mineralization is located in 3 zones over a strike length of 4 km. 105A 017
Risby Ron Berdahl Box 11250 Whitehorse, Yukon Canada Y1A 6N4 Telephone: 867-668-4963 E-mail: rberdahl@yukon.net	**Total** 1982 Northern Miner, 08/08/1982, p. 30	Historical calculation 2 700 000 tonnes @ 0.81% WO	*Deposit, inactive. Available for option.* 1968: discovery. A total of over 7000 m of drilling has been completed to date. 105F 014
Mactung North American Tungsten Corporation Limited 11-1155 Melville Street Vancouver, British Columbia Canada V6E 4C4 Telephone: 604-682-1333	**Lower skarn** Report by Roscoe Postle Associates Inc., June/2001 **Upper skarn** Report by Roscoe Postle Associates Inc., June/2001	Measured and indicated 5 052 000 tonnes @ 1.2% WO_3 Measured and indicated 8 617 000 tonnes @ 0.8% WO_3	*Deposit, active. $1 million drill program 2005.* 1962: discovery. 1970: road construction. 1971-73: underground development, bulk sampling, metallurgical testing. 1974-77: environmental and feasibility studies. 1984-85: bulk sampling and road building. A total of 12 700 m of drilling have been completed. 105O 002
Ray Gulch StrataGold Corporation 701-475 Howe Street Vancouver, British Columbia Canada V6C 2B3 Telephone: 604-682-3474	**Garnet** 1980 Assessment report #090163	Historical calculation 4 861 593 tonnes @ 0.48% WO	*Deposit, active exploration.* 1942: discovery. Completion to date of over 20 000 m of drilling. 106D 027
Stormy E-Energy Ventures 2110-1177 Hastings Street W Vancouver, British Columbia Canada V6E 2K3 Telephone: 604-681-1231	**Total** 1959 Assessment report #060692	Historical calculation 15 628 tonnes @ 1.05% WO_3	*Deposit, active. Drilling planned for 2005.* 1955: discovery. 1959: underground development. 1979-80: underground rehabilitation, bulk sampling. 1995: road building. 105F 011

Townsite at the Cantung mine, on the border between the Northwest Territories and the Yukon. The Cantung deposit consists of scheelite skarn developed in Cambrian carbonate rocks above a mid-Cretaceous pluton. The mine is the western world's largest operating tungsten mine.

Tungsten targets in Yukon


Insular
Yukon-Tanana Terrane
Selwyn Basin
Other Sedimentary Basins
Cassiar Platform
North American Platform
TINTINA FAULT
DENALI FAULT
Yukon
Alaska
China
Canada
Whitehorse
United States
Beijing
Inuvik
Old Crow
Dawson City
Keno
Mayo
Elsa
Keno Hill
Silver
Galena
Hecla
Bellekeno
Scheelite Dome
Flat River
Prairie Creek
Cantung
Tungsten
Macmillan Pass
Vangorda
Faro
Ross River
Carmacks
Pelly Crossing
Beaver Creek
Stewart Crossing
Mayo Landing
Klondike Highway
Dempster Highway
Robert Campbell Highway
Klondike Highway
Tintina Trench
Canol Road
Campbell Highway
Nahanni Range
Selwyn Mountains
Mackenzie Mountains
Wernecke Mountains
Ogilvie Mountains
Richardson Mountains
Tombstone Mountains
Dempster

Tungsten

Given the widespread exposure of mid-Cretaceous granites and Lower Paleozoic carbonate rocks, the large tungsten reserves outlined, and the presence of several inadequately tested occurrences, there is very high potential for the discovery of additional tungsten deposits in the Yukon.

Skarn/replacement tungsten deposits.

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	**Mineral resource-reserve category‡/** **Tonnage@ grade/commodity**	*Status* **Yukon MINFILE no.****
Cantung North American Tungsten Corporation Limited 1111-1 Melville Street Vancouver, British Columbia Canada V6E 4C4 Telephone: 604 682 1333 (1.8 km northeastern underground zone)		Current mineable reserves: ** 1 000 tonnes (4 250 000 tonnes at a grade of 1.2% WO) Total reserves prior to production: 4.3 million tonnes @ 1.1% WO, in the original deposit Extension: 1.2 million tonnes @ 1.0% WO	*Active mine, expansion* 1954: discovered. 1962: production started. 1966: closed. 2001-2003: acquired. 2003: reopening. Excluded in Southwest Territories access to ore from the Yukon
Bailey North American Tungsten Corporation Limited 1111-1155 Melville Street Vancouver, British Columbia Canada V6E 4C4 Telephone: 604 682-1333	**B zone** 1988 Assessment report #092120	Historical calculation: 404 600 tonnes @ 1% WO	*Deposit, inactive* 1963: discovery. Mineralization is located in 3 zones over a strike length of 4 km. 105A 017
Risby Ron Berdahl Box 113-50 Whitehorse, Yukon Canada Y1A 6A4 Telephone: 867 668-3963 E-mail: rberdahl@cablerocket	**Total** 1982 Northern Miner 68 (6): 1982, p. 30	Historical calculation: 2 500 000 tonnes @ 0.6% WO	*Deposit, mid-late Exploration* 1980: discovery. Total of over 1000 m of drilling has been completed to date. 105F 013
Mactung North American Tungsten Corporation Limited 1111-1155 Melville Street Vancouver, British Columbia Canada V6E 4C4 Telephone: 604 682-1333	**Lower skarn** Report by Roscoe Postle Associates Inc., June 2001 **Upper skarn** Report by Roscoe Postle Associates Inc., June 2001	Measured and indicated: 5 052 000 tonnes @ 1.2% WO Measured and indicated: 8 617 000 tonnes @ 0.8% WO	*Deposit, active. $1 million drill program 2005* 1962: discovery. 1970: road construction. 1971-73: underground development, bulk sampling, metallurgical testing. 1974-77: environmental and feasibility studies. 1984-85: bulk sampling and road building. A total of 12 700 m of drilling have been completed. 105O 002
Ray Gulch Strataddi Corporation 701-475 Howe Street Vancouver, British Columbia Canada V6C 2B3 Telephone: 604 682-3414	**Garnet** 1980 Assessment report #090613	Historical calculation: 4 000 000 tonnes @ 0.1% WO	*Deposit, active exploration* 1942: discovery. A considerable quantity of over 50 000 m of drilling. 105E 010
Stormy E-Energy Ventures 2110-1177 Hastings Street W Vancouver, British Columbia Canada V6E 2K3 Telephone: 604 681-1231	**Total** 1959 Assessment report #060692	Historical calculation: 15 628 tonnes @ 1.05% WO	*Deposit, active. Drilling planned for 2005.* 1955: discovery. 1959: underground development. 1979-80: underground rehabilitation, bulk sampling. 1995: road building. 105E 011

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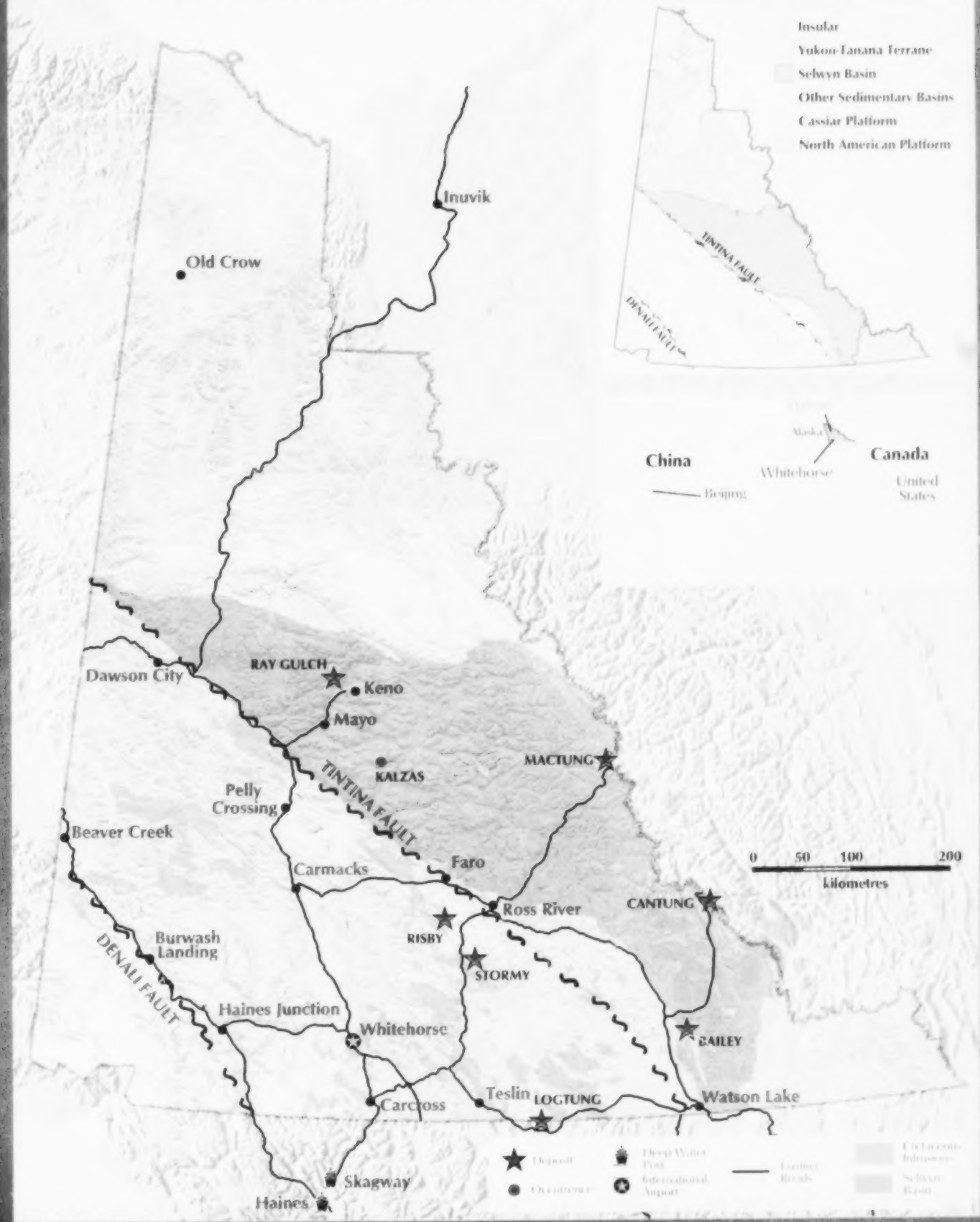
Tungsten targets in Yukon



Porphyry/sheeted vein tungsten deposits.

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage● grade/commodity	*Status* Yukon MINFILE no.[44]
Logtung Strategic Metals Limited 6910 - 133 Edmonton Street W. Vancouver, British Columbia Canada V6E 1E6 Telephone: 604 688 2461	**Total** 1964 Economic Geology, Anderson p. 636-650	Historical calculation 0.7 million tonnes @ 0.12% W (0.07% WO$_3$)	*Deposit: active exploration* 1963: discovery and road construction 1967: 61 drillholes (1,656 m); underground development, bulk sampling, metallurgical and environmental studies; 2001: data compilation 105D 029
Kalzas Copper Ridge Exploration 500-625 Howe Street Vancouver, British Columbia Canada V6C 2T6 Telephone: 604 688 0833	**none** Wolframite in sheeted veins, stockwork and breccia zones is exposed over a 1.5 km have been obtained	*Active exploration. Drilling planned for 2005.* 1978 discovery. 1981-83 trenching, 2 drill holes. 2001-2002: extensive trench sampling. 105M 066	

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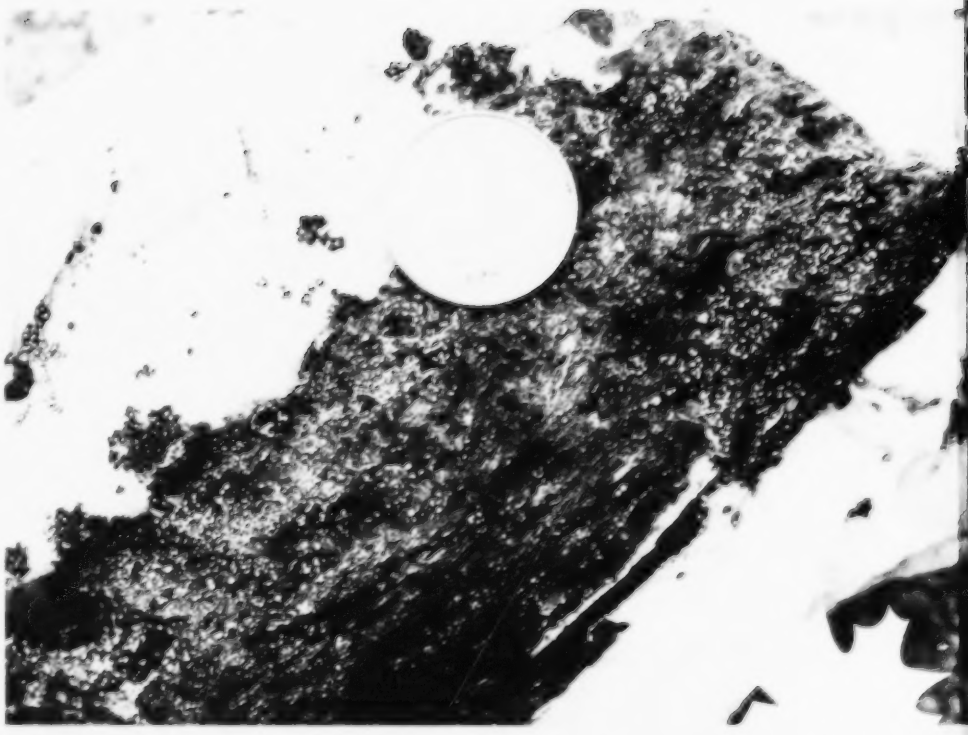
Large blades of wolframite contained in sheeted quartz veins at the Kalzas tungsten deposit. The veins cut hornfelsed sedimentary rocks surrounding an unexposed pluton. Despite widespread mineralization, there are only two historical drill holes. The deposit will be actively drilled in 2005.



Porphyry/sheeted vein tungsten deposits.

[illegible] Owner/optioned to/contact	[illegible] type, production/reserves, refs	[illegible] category‡	[illegible] Status, MINFILE no.**
Logtung Strategic Metals Limited 1016-510 Hastings Street W Vancouver, British Columbia Canada V6B 1L8 Telephone: 604-688-2568	**Total** 1984 Economic Geology, Aug/84 p. 848-868	Historical calculation 162 million tonnes @ 0.13% W, 0.052% Mo	*Deposit, active exploration* 1976: discovery and road construction. 1977-81: drilling (11 628 m), underground development, bulk sampling, metallurgical and environmental studies. 2001: data compilation. 105B 039
Kalzas Copper Ridge Exploration 500-625 Howe Street Vancouver, British Columbia Canada V6C 2T6 Telephone: 604-688-0833	**none**	Wolframite in sheeted veins, stockwork and breccia zones is exposed over a 1.5 km^2. Assays of greater than 1% WO_3 over 1-6 m have been obtained.	*Active exploration. Drilling planned for 2005.* 1978 discovery. 1981-83 trenching, 2 drill holes. 2001-2002: extensive trench sampling. 105M 066

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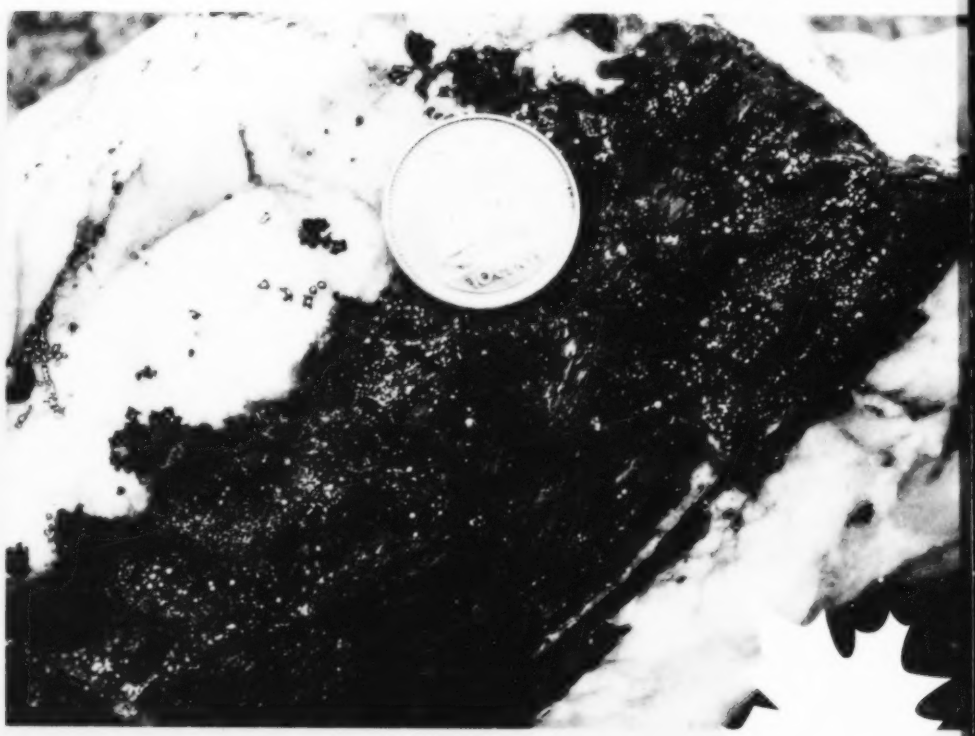
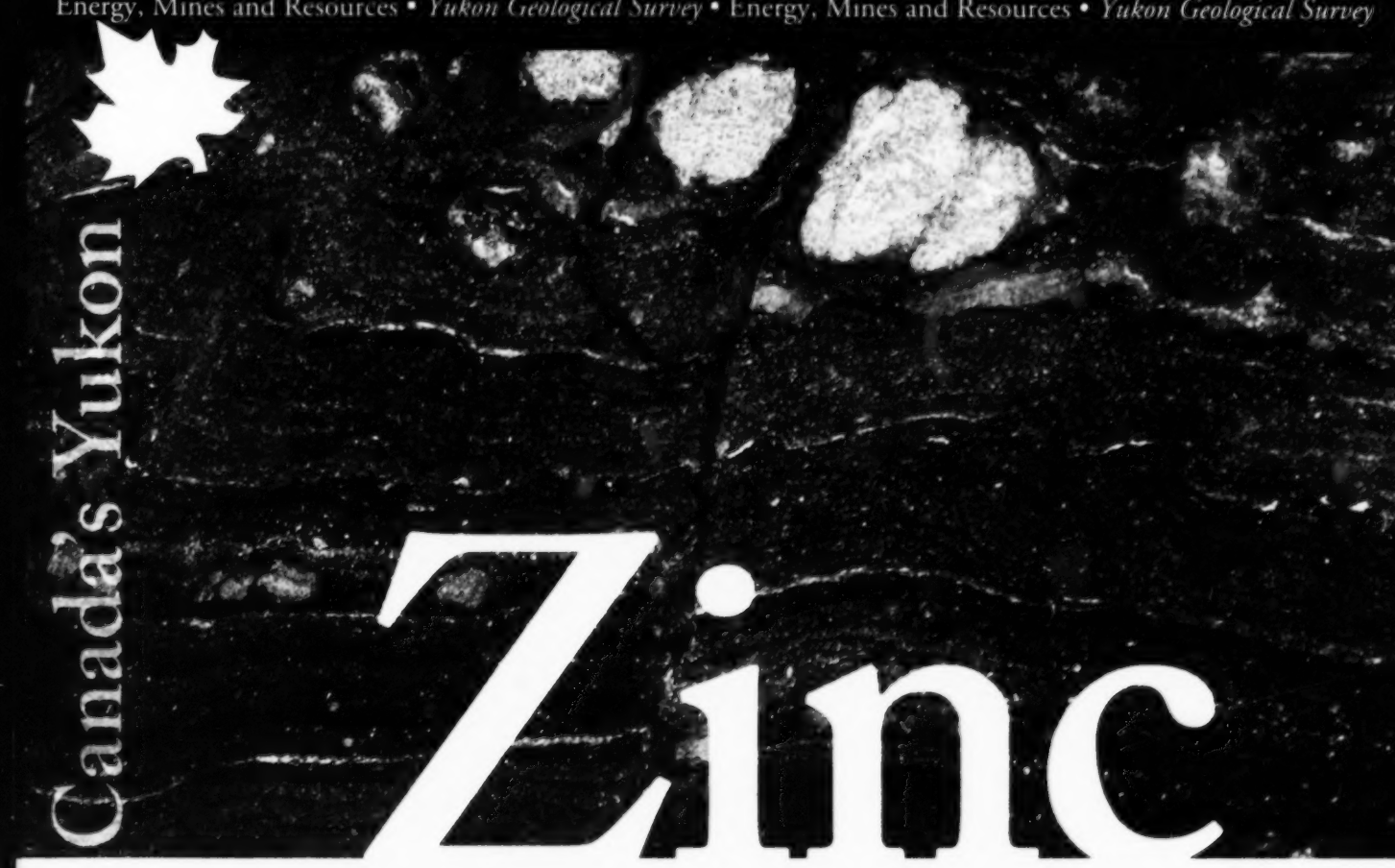




Canada's Yukon

Zinc

The Yukon is well-endowed with zinc deposits and has high potential for new discoveries in a variety of geological environments (sedimentary-exhalative, volcanic-hosted massive sulphide, Mississippi Valley and skarn settings).

Much of the eastern Yukon is underlain by the Selwyn Basin, a Neoproterozoic-Mississippian depositional basin that is characterized by off-shelf deep water anoxic shales in a basin bounded by platform carbonates. Three major periods of sedimentary-exhalative sulphide deposition have been recognized, including the Cambrian-aged Anvil camp, Silurian-aged Howard's Pass camp, and the Devonian-aged MacMillan Pass camp. The Anvil District contains five known pyritic massive sulphide deposits, with a total pre-production mineral inventory of 120.1 million tonnes averaging 9.3% combined lead-zinc; Howard's Pass has a combined inventory of 120 million tonnes averaging 7.5% combined lead-zinc, and this deposit is not completely defined and contains over 500 million tonnes of a lower grade zinc resource. These large mineral inventories, together with the continuous stratigraphy, bode well for the further mineral potential of the Selwyn Basin.

YUKON GEOLOGICAL SURVEY

Yukon Government

2005

Volcanic-hosted massive sulphide (VMS) deposits (e.g., the Marg deposit) are also known to occur in the Selwyn Basin, and more recently were discovered in variably metamorphosed Upper Paleozoic sedimentary and volcanic rocks of the Yukon-Tanana Terrane. The massive sulphide deposits formed in continental-arc and back-arc-basin settings during rifting from the continental margin. Since the initial discovery of the Kudz Ze Kayah deposit by Cominco in 1994, four additional deposits (GP4F, Wolverine, Fyre and Ice) and numerous occurrences have been discovered in the Finlayson Lake district of southeastern Yukon. The two most promising zinc deposits, Kudz Ze Kayah and Wolverine, contain 11 million tonnes of over 8% combined zinc-lead-copper and 5 million tonnes over 15% combined zinc-lead-copper, respectively, each with precious metal values. The nature of VMS deposits to occur in clusters is indicative of high potential in the Yukon-Tanana Terrane. Recent 1:50,000-scale regional mapping by the Yukon Geological Survey in the Finlayson Lake district has defined the stratigraphy hosting the VMS deposits. This increased understanding of the Yukon-Tanana Terrane, and the availability of airborne geophysical data in other areas of Yukon underlain by the Yukon-Tanana Terrane, will aid in the exploration for similar deposits in other areas of Yukon.

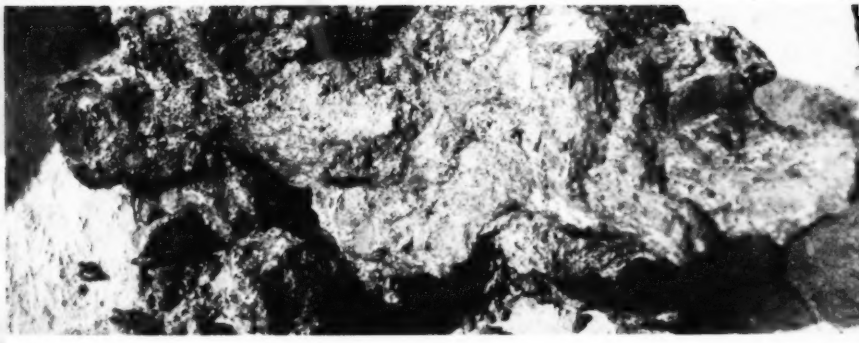
Several Mississippi Valley-type deposits and showings are hosted in Proterozoic carbonate rocks in northern Yukon. Skarn and replacement zinc mineralization, such as that at the Sa Dena Hes mine, is associated with Cretaceous plutons intruding the Paleozoic carbonate platforms of the continental margin. Exploration interest for both of these deposit types is increasing due to their favourable metallurgical qualities.

$5 million exploration

Banded sphalerite-galena mineralization from drill core of the Howard's Pass deposit. A $5 million exploration drilling program is being conducted in 2005 on this sedimentary-exhalative deposit.

Sulphide mineral blast in Faro mine open pit, June, 1979. The deposit produced over 50 million tonnes of ore grading 4.7% Zn, 2.1% Pb, and 36 g/t Ag.

Silver-lead-zinc-copper breccia from the Blende property, north of Mayo.

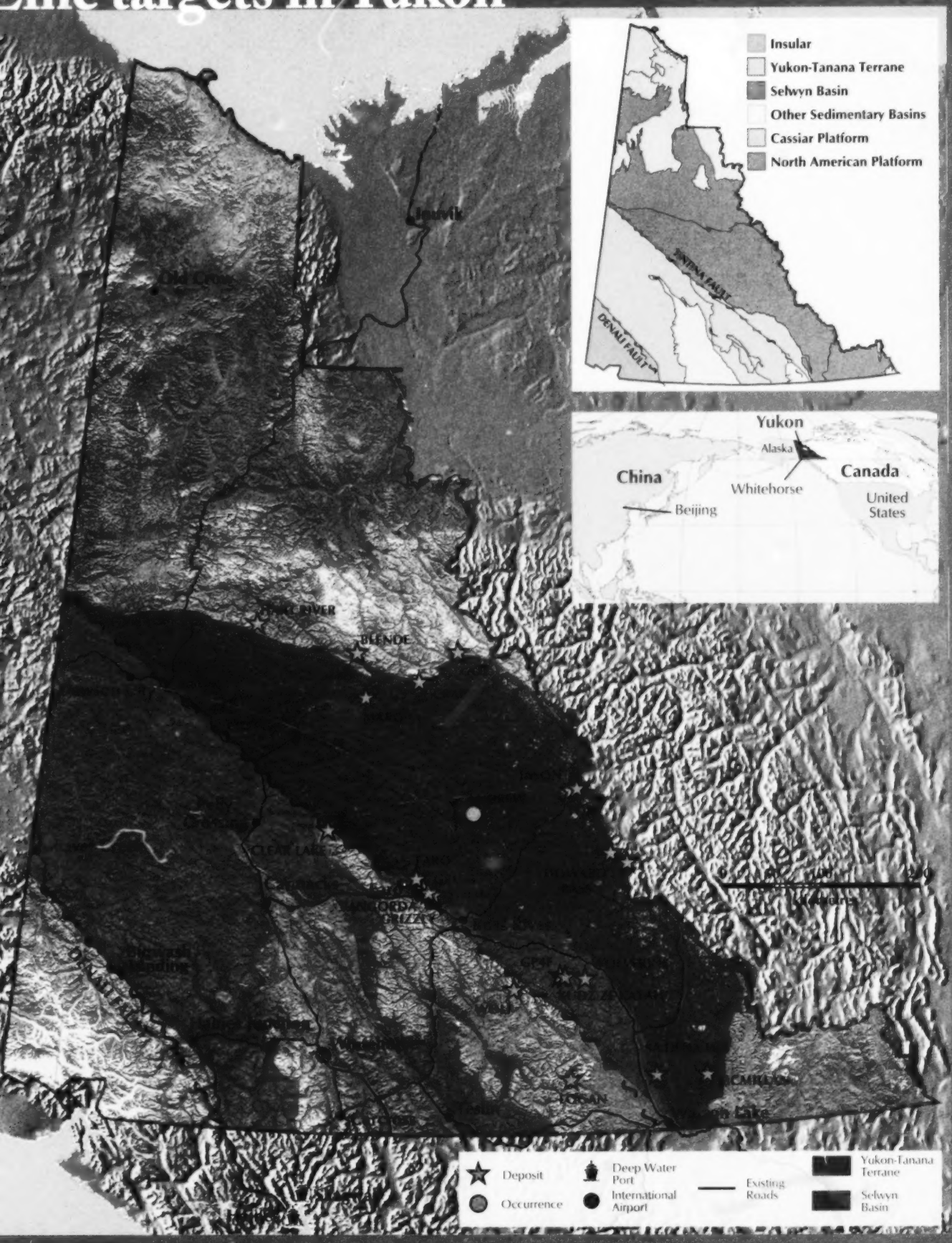


Drilling near the Wolverine high-grade zinc-silver VMS deposit. Feasibility studies, including test mining are currently underway.

inc

Canada's Yukon

Zinc targets in Yukon



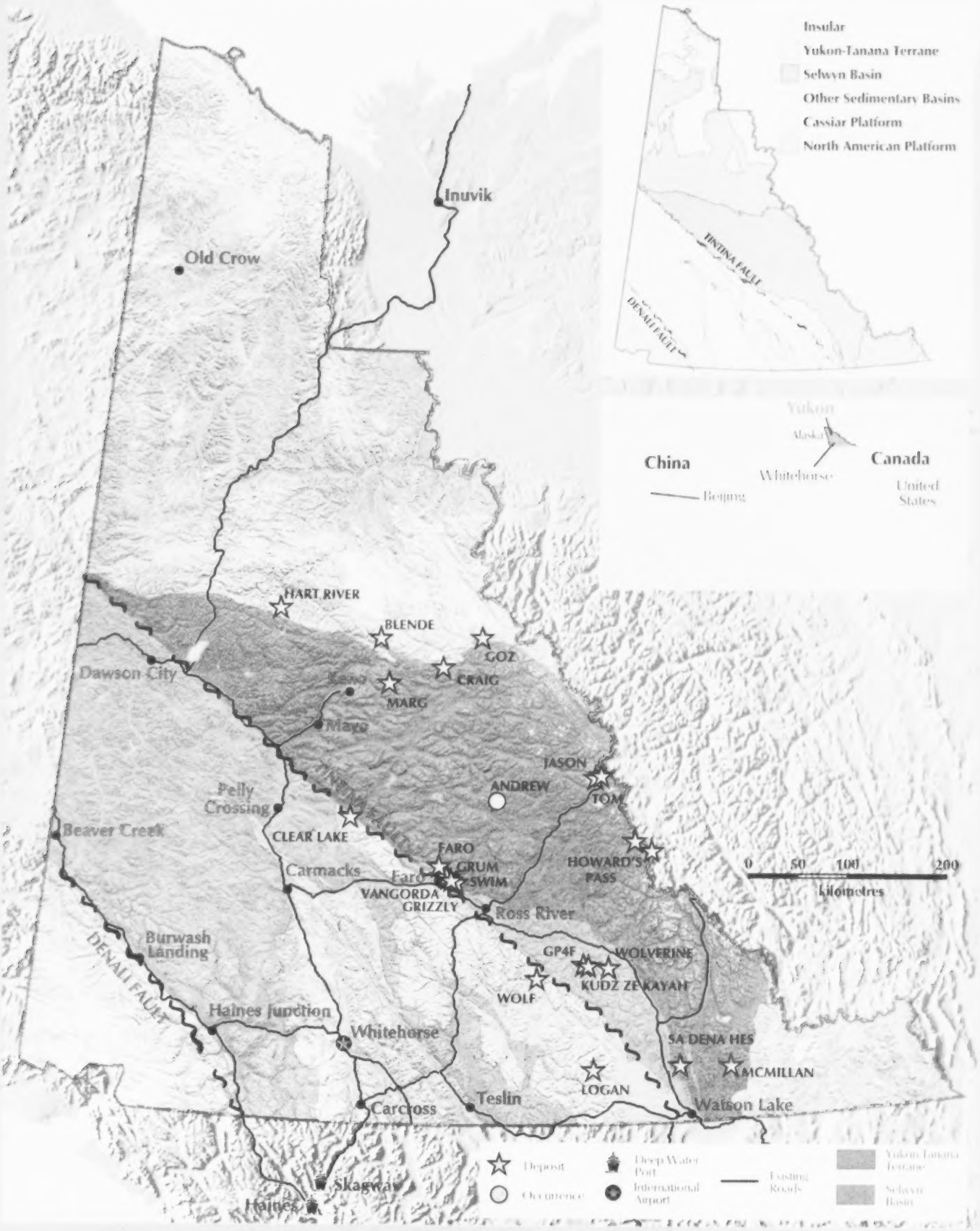
Sediment-associated (sedimentary-exhalative) zinc deposits

Deposit Owner/optioned to/contact	Zone(s) Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage & grade/commodity	Status Yukon MINFILE no.**
Howard's Pass Placer Dome (CLA) Limited *Optioned to:* Pacific Rescources Ltd. 1710-1177 Hastings Street W Vancouver, British Columbia Canada V6E 2L3 Telephone: 604-682-5474	**XY zone** 1983 EMR Mineral Bulletin MR 213, p. 313 **Anniv zone** 1983 EMR Mineral Bulletin MR 213, p. 313	Historical calculation 59 Mt@ 5.4% Zn, 2.1% Pb Historical calculation 61 Mt 5.4% Zn, 2.1% Pb	*Deposit, active in 2005. $5 million exploration drilling program planned.* 1972: discovery. 1974: winter road and airstrip construction. 1977: road building. 1980-81: underground development. 1991: site cleanup. Completion of over 34 600 m of drilling on XY and Anniv zones. 105I 012/037
Faro *In receivership:* Wes Treleaven Senior Vice President Deloitte and Touche Inc. 1900-79 Wellington Street W Toronto, Ontario Canada M5K 1B9 Telephone: 416-601-4482 E-mail: wtreleaven@deloitte.ca	**Total** 1983 CIM Special Volume 37, p. 319-381	Geological resource Pre-production 57.6 Mt @ 4.7% Zn, 3.4% Pb, 36 g/t Ag	*Deposit mined out. Currently on care and maintenance.* 1965: discovery. 1965-1969: exploration. 1969-1992: production with some hiatus intervals. 105K 061
Swim *In receivership:* Wes Treleaven Senior Vice President Deloitte and Touche Inc. 1900-79 Wellington Street W Toronto, Ontario Canada M5K 1B9 Telephone: 416-601-4482 E-mail: wtreleaven@deloitte.ca	**Total** 1983 CIM Special Volume 37, p. 319-381	Historical calculation 4.3 Mt@ 4.7% Zn, 3.8% Pb, 42 g/t Ag	*Deposit, care and maintenance.* 1964: discovery. 1964-1976: exploration. Total of 10 150 m of drilling. Deposit is roughly 460 m long and 150 m wide, with an average thickness of 21 m. 105K 046
Vangorda *In receivership:* Wes Treleaven Senior Vice President Deloitte and Touche Inc. 1900-79 Wellington Street W Toronto, Ontario Canada M5K 1B9 Telephone: 416-601-4482 E-mail: wtreleaven@deloitte.ca	**Total** 1996 Anvil Range Mining Corp. Annual Information Form	Pre-production Geological resource 7.1 Mt @ 4.3% Zn, 3.4% Pb, 48 g/t Ag, 0.75 g/t Au Proven reserve* 165 000 t @ 4.14% Zn, 3.27% Pb, 43 g/t Ag	*Open pit past producer, care and maintenance. Deposit mined out.* 1953: discovery. 1979: metallurgical and feasibility studies. Over 23 500 m of drilling. 1989: bulk sampling. 1990-93 and 95-96: production. 105K 055
Grum *In receivership:* Wes Treleaven Senior Vice President Deloitte and Touche Inc. 1900-79 Wellington Street W Toronto, Ontario Canada M5K 1B9 Telephone: 416-601-4482 E-mail: wtreleaven@deloitte.ca	**Total** 1996 Anvil Range Mining Corp. Annual Information Form	Proven reserve* 1 589 000 t @ 5.34% Zn, 3.56% Pb, 58 g/t Ag, 0.83 g/t Au Probable reserve* 17.06 Mt @ 4.34% Zn, 2.6% Pb 44 g/t Ag, 0.74 g/t Au	*Open pit past producer, care and maintenance. Deposit partly mined out.* 1973: discovery. 1976-77: underground development, feasibility study. 1979: metallurgical testing. Total of over 75 000 m of drilling completed. 1995-96 and 1997-98: production. 105K 056

‡Mineral resource-reserve category: resource and reserve figures have been compiled from a variety of historical data sources that in most cases predate the implementation of National Instrument 43-101. Therefore, only those figures indicated by an asterisk (*) comply with National Instrument 43-101.

** The Yukon MINFILE is a computerized mineral inventory system that documents the exploration history and geology of metallic, industrial mineral and coal occurrences in the Yukon. The database contains detailed descriptions of 2606 separate mineral occurrences located throughout the Yukon.

Zinc targets in Yukon



Sediment-associated (sedimentary-exhalative) zinc deposits

Deposit Owner/optioned to,/contact	**Zone(s)** Year resource-reserve was calculated,/reference	Mineral resource-reserve category‡,/ Tonnage€ grade,/commodity	Status Yukon MINFILE no.**
Howard's Pass Pavex Drone, CEO, Tommil Hollywood Pacific Bonanza Hill [illegible] Hastings Street W Vancouver, British Columbia Canada V6E 3E4 Telephone: [illegible] x[illegible]	**XY zone** 1963 CIM Special Vol. no. 32, p. 511	[illegible] of calculation [illegible] Zn, Ag, Pb	[illegible] Yukon MINFILE number(s) [illegible] [illegible]
	Anniv zone 1963 CIM Special Vol. no. 32, p. 511	[illegible] of calculation [illegible] Zn, Ag, Pb	
Faro [illegible] ownership Wes Bellearon Senior Vice President Deloitte and Touche Inc 19001 79 Wellington Street W Toronto, Ontario Canada M5K 1B9 Telephone: 416 601 1307 Email: wbellearon@deloitte.ca	**Total** 1963 CIM Special Volume 37 p. 129-301	Geological resource Pre-production [illegible] Zn, Pb, Ag	[illegible] Yukon MINFILE number(s) [illegible] 1965; discovery; 1965-1969; exploration; 1969-1981; production; 1982-1998; [illegible]
Swim [illegible] ownership Wes Bellearon Senior Vice President Deloitte and Touche Inc 19001 79 Wellington Street W Toronto, Ontario Canada M5K 1B9 Telephone: 416 601 1307 Email: wbellearon@deloitte.ca	**Total** 1963 CIM Special Volume 37 p. 129-301	[illegible] of calculation [illegible] Zn, Ag, Pb	[illegible] Yukon MINFILE number(s) [illegible] [illegible]
Vangorda [illegible] ownership Wes Bellearon Senior Vice President Deloitte and Touche Inc 19001 79 Wellington Street W Toronto, Ontario Canada M5K 1B9 Telephone: 416 601 1307 Email: wbellearon@deloitte.ca	**Total** 1996 Anvil Range Mining Corp. Annual Information Form	Pre-production Geological resource [illegible] Zn, Pb, Ag Reserves not [illegible] Zn, Pb, Ag	[illegible] Yukon MINFILE number(s) [illegible] 1970; discovery; 1970-1980; exploration; 1980-1981; [illegible] 1981-1997; mining; 1997-[illegible] and 2003; [illegible]
Grum [illegible] ownership Wes Bellearon Senior Vice President Deloitte and Touche Inc 19001 79 Wellington Street W Toronto, Ontario Canada M5K 1B9 Telephone: 416 601 1307 Email: wbellearon@deloitte.ca	**Total** 1996 Anvil Range Mining Corp. Annual Information Form	[illegible] of calculation [illegible] Zn, Pb, Ag	[illegible] Yukon MINFILE number(s) [illegible] [illegible]

‡Mineral resource-reserve category, resource and reserve figures have been compiled from a variety of historical data sources that in most cases predate the implementation of National Instrument 43-101. Therefore, only those figures indicated by an asterisk (*) comply with National Instrument 43-101.

The Yukon MINFILE is a computerized mineral inventory system that documents the exploration history and geology of metallic, industrial mineral and coal occurrences in the Yukon. The database contains detailed descriptions of 2000 separate mineral occurrences located throughout the Yukon.

Sediment-associated (sedimentary-exhalative) zinc deposits, *continued*

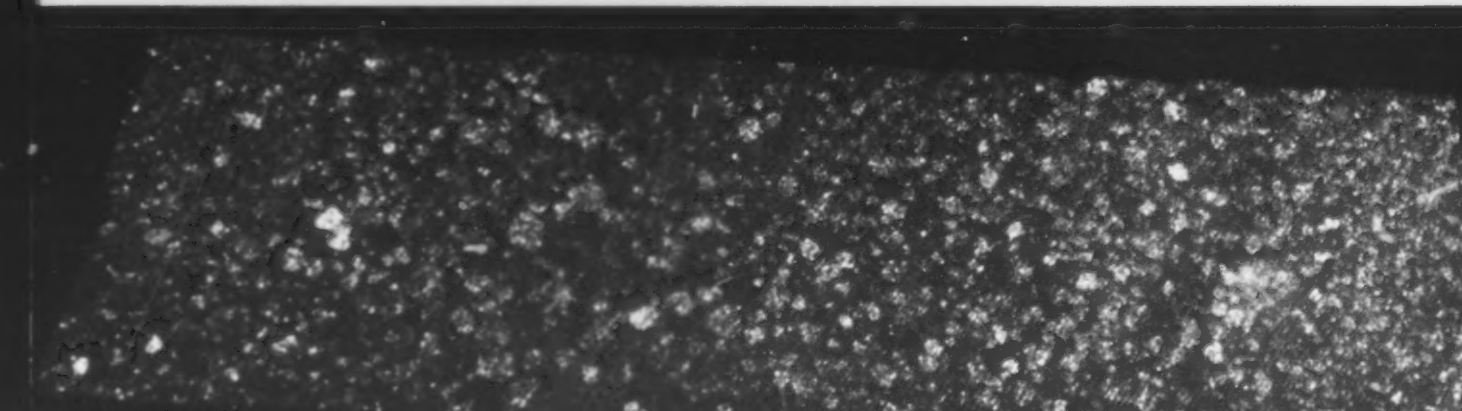
Deposit Owner(s)/Cpnionet to/Contact	Reserve/ Year resource/reserve was published/reference	Mineral resource/reserve category[1]/ Tonnage ● grade ● commodity	Status Yukon MINFILE no.[2]
Grizzly *In receivership:* Wes Treleaven Senior Vice President Deloitte and Touche Inc. 1900-79 Wellington Street W Toronto, Ontario Canada M5K 1B9 Telephone: 416-601-4482 E-mail: wtreleaven@deloitte.ca	**Total** 1996 Anvil Range Mining Corp. Annual Information Form	Indicated* 17.24 Mt @ 6.39% Zn, 4.85% Pb, 71.6 g/t Ag, 0.75 g/t Au	*Deposit, care and maintenance.* 1953: staked as part of Vangorda property. 1976: discovery during deep drilling. Completion of 52 000 m of drilling to date. 105K 101
Clear Lake Energold Minerals Inc. 501-147 Bay Street Toronto, Ontario Canada M5H 2R7 Telephone: 416-362-6686	**Clear Lake** 1991 George Cross Newsletter, 03/04/1991, p. 2	Not defined 5 570 114 t @ 11.4% Zn, 2% Pb, 88.1 g/t Ag	*Deposit, inactive.* 1965: discovery. 1979: airstrip construction. 1993: baseline environmental studies. Over 10 700 m of drilling completed to date. 105L 045
Tom Hudson Bay Mining and Smelting Company Limited 2200-201 Portage Avenue Winnipeg, Manitoba Canada R3B 3L3 Telephone: 204-949-4261	**West zone** 1986 CIM Special Volume 37, p. 100-115 **East zone** 1986 CIM Special Volume 37, p. 100-115	Indicated 6 864 800 t @ 7.16% Zn, 4.44% Pb, 42.6 g/t Ag Indicated 2 418 900 t @ 8.42% Zn, 11.13% Pb, 145.4 g/t Ag	*Deposit, inactive.* 1951: discovery. 1970-71: underground development, bulk sampling, metallurgical testing. 1980-82: underground development, engineering and environmental studies. Completion to date of over 27 200 m of drilling. 105O 001
Jason Mac Pass Resources Limited 1409-409 Granville Street Vancouver, British Columbia Canada V6C 1A1	**Total** (Main, South and End zones) 1983 CIM Special Volume 37, p. 87-99	Historical calculation 14.1 Mt @ 6.57% Zn, 7.09% Pb, 79.9 g/t Ag	*Deposit, inactive.* 1974: discovery. 1982: environmental studies. 1983: feasibility studies. Total of 30 700 m of drilling completed to date. 105O 039

Aerial view of the Kudz Ze Kayah zinc-lead volcanic-associated massive sulphide deposit. This and the GP4F deposit occur within Devonian to Mississippian rocks of the Yukon-Tanana Terrane.

Volcanic-associated zinc deposits.

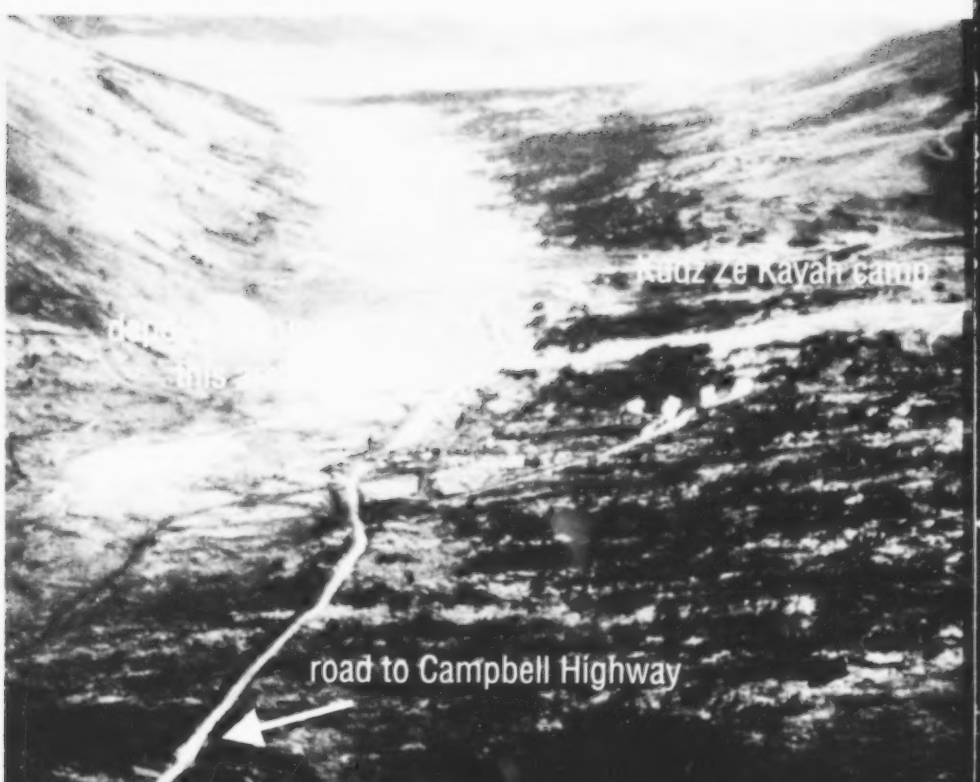
[illegible]	[illegible]	[illegible]	[illegible]
Wolverine Yukon Zinc Corporation 701-475 Howe Street Vancouver, British Columbia Canada V6C 2B3 Telephone: 604 682 5474	**Main lens** 2000 Yukon Zinc website (estimate by Hatch Assoc. Ltd., based on Oct. 2000 report by Nilsson Mine Services Ltd)	Indicated 4 941 000 t @ 12.43% Zn, 1.37% Cu, 1.44% Pb 136.6 g/t Ag, 1.59 g/t Au	*Deposit, $14 million feasibility stage program currently in progress.* 1973: original staking. 1995: discovery. 1996: airstrip construction. Over 42 000 m of drilling to date. Metallurgical tests and development plans completed. Feasibility study commissioned. Test mining, underground development and exploration. 105G 072
Kudz Ze Kayah Teck Cominco Limited 600-200 Burrard Street Vancouver, British Columbia Canada V6C 3L9 Telephone: 604-687-1117	**Total** 2003 Teck Cominco annual report	Indicated* 11.3 Mt @ 5.9% Zn, 0.9% Cu, 1.5% Pb, 137 g/t Ag, 1.3 g/t Au	*Deposit, active.* 1993: discovery. 1994-95: airstrip and tote road construction, 40 tonne bulk sample, engineering, metallurgical and environmental studies. Over 32 000 m of drilling. Environmental permitting completed, Class A water license signed. Active on other targets in area. 105G 117
GP4F Teck Cominco Limited 600-200 Burrard Street Vancouver, British Columbia Canada V6C 3L9 Telephone: 604-687-1117	**Total** 1998 Teck Cominco annual report	Inferred 1.5 Mt @ 6.4% Zn, 0.1% Cu, 1.1% Pb, 90 g/t Ag, 2 g/t Au	*Deposit, active exploration.* 1994: staked, airborne geophysics. 1998: drilling (1556 m), discovery. Active exploration on other targets in area. 105G 143
Marg Atna Resources Limited *Optioned to:* Yukon Gold Corporation Suite 408, 347 Bay Street Toronto, Ontario Canada M5H 2R7 Telephone: 416-865-9790	**Marg** 1997 Unpublished company report, as quoted in George Cross Newsletter, 02/28/2000, p.2	Not defined 5 527 000 t @ 4.6% Zn, 1.76% Cu, 2.46% Pb, 62.7 g/t Ag, 0.98 g/t Au	*Deposit, active exploration planned for 2005.* 1965: discovery. 1988: airstrip and road construction. 1997: preliminary metallurgical testing, winter road completed to facilitate development. Total of over 23 000 m of drilling to date. Deposit limits are open. 106D 009
Hart River Calypso Acquisition Corp. 1880-625 Howe Street Vancouver, British Columbia Canada V6C 1G6 Telephone: (604) 408-2232	**Total** 1969 Mineral Industry Report 1969 and 1970, p. 23; Abel Canadian Mines Handbook 1973-74, p. 181	Not defined (originally reported as proven reserves) 525 849 t @ 3.63% Zn, 1.45% Cu, 0.67% Pb, 49.7 g/t Ag, 1.41 g/t Au	*Deposit, inactive.* 1955: discovery. 1968-71: winter road construction, underground development. 5989 m of surface and underground drilling, feasibility study completed. 1993-94: 1508 m of additional drilling. 116A 009
Wolf Atna Resources Limited (66%) and YGC Resources Limited (34%)	**Total** 2000 Atna website (reported as in-house resource)	Not defined 4.1 Mt @ 6.2% Zn, 1.8% Pb, 84 g/t Ag	*Deposit, inactive.* 1955: discovery. 1967: road construction. Total of 10 508 m of drilling completed to date. 2000: completion of engineering studies indicating that upper portion of the ore body could be mined by open-pit methods. 105G 008

Massive sulphide mineralized rock in drill core from the GP4F deposit.



Sediment-associated (sedimentary-exhalative) zinc deposits, *continued*

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage@ grade/commodity	*Status* Yukon MINFILE no.**
Grizzly In ownership Wes Bekkearn Senior Vice-President Deloitte and Touche Inc 1900-79 Wellington Street W Toronto, Ontario Canada M5K 1B9 Telephone: 416 601 4482 E-mail: wbekkearn@deloitte.ca	**Total** 1998 Anvil Range Mining Corp. Annual Information Form	Indicated 17.23 Mt @ 6.29% Zn, 1.85% Pb 73.6 g/t Ag, 0.75 g/t Au	*Deposit size and prospective* YGT staked as part of Vanguard property. YGS discovery during deep drilling. Completion of 32 000 m of drilling to date. YCK 101
Clear Lake Faregold Minerals Inc 301-145 Rice Street Toronto, Ontario Canada M5T 2P Telephone: 416 363 [illegible]	**Clear Lake** 1991 George Cross News Letter 91-11 (1991) p. 7	Not disclosed [illegible]	*Deposit size and prospective* 1991: discovery; DCP, mining concession; 1993: feasibility, environmental studies. Over 10 000 m of drilling completed to date. [illegible]
Tom Hudson Bay Mining and Smelting Company, Limited 2500-201 Portage Avenue Winnipeg, Manitoba Canada R3B 3L3 Telephone: 204 949 4561	**West zone** 1986 CIM Special Volume 37 p. 100-113 **East zone** 1986 CIM Special Volume 37 p. 100-113	Indicated 6.2[illegible] @ 7.16% Zn, 4.11% Pb 42.6 g/t Ag Indicated 2.4[illegible] @ 8.47% Zn [illegible] Pb, 111 g/t Ag	*Deposit size and prospective* 1981: discovery; DCP, 71 underground development holes; coring, metallurgical testing; 1986-87: underground development, engineering, and environmental studies. Completion to date of some 17 200 m of drilling. [illegible]
Jason Mac Pass Resources Limited 1200-800 Granville Street Vancouver, British Columbia Canada V6C 1J3	**Total** Main, Stratiform and [illegible] Zones 1991 CIM Special Volume 37, p. [illegible]	Undiscovered (probable) 14.1 Mt @ 6.1% Zn, [illegible] [illegible] Ag	*Deposit size and prospective* 1951: discovery; 1987: continuation of drilling; 1991: feasibility studies. Total of 30 000 m of drilling completed to date. [illegible]

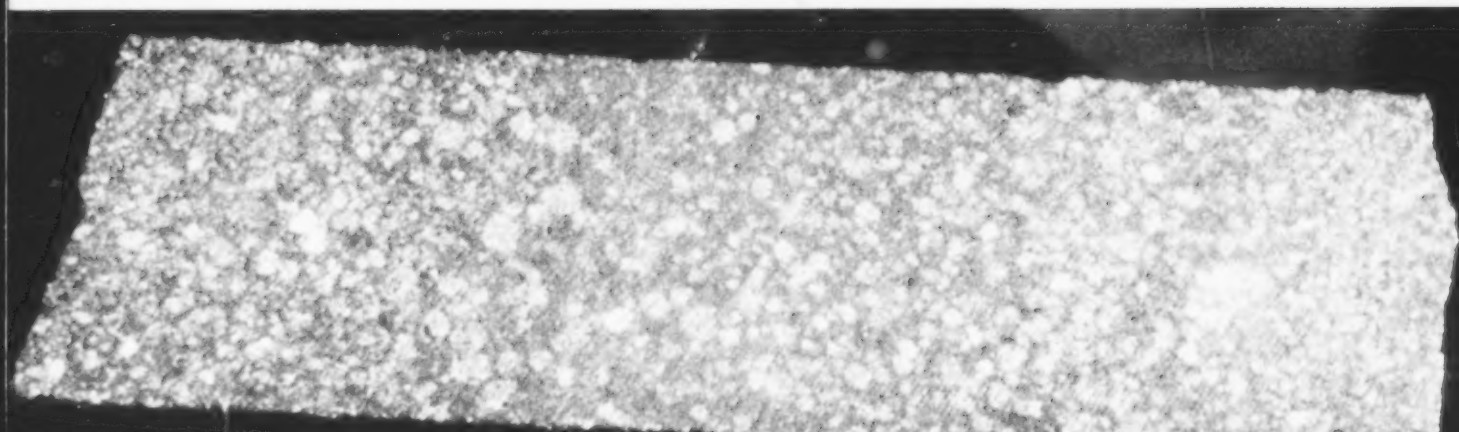


Aerial view of the Kudz Ze Kayah zinc-lead volcanic-associated massive sulphide deposit. This and the GP4F deposit occur within Devonian to Mississippian rocks of the Yukon-Tanana Terrane.

Volcanic-associated zinc deposits.

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	*Mineral resource-reserve category‡/* *Tonnage@ grade/commodity*	*Status* **Yukon MINFILE no.****
Wolverine Yukon Zinc Corporation 701 – 475 Howe Street Vancouver, British Columbia Canada V6C 2B3 Telephone: (604) 682-3701	**Main lens** 2001 Yukon Zinc website resources by Hatch Associates Ltd. based on Oct. 2001 report by Nilsson Mine Services Ltd.	Indicated 4 941 000 t @ 12.4% Zn 1.7% Cu, 1.4% Pb 136 g/t Ag, 1.7 g/t Au	*Deposit: active* 1993: discovery. 1994: 9 c. m/stop and haul road construction; 40 tonne bulk sample; engineering, metallurgical and environmental studies. Over 32 000 m of drilling. Environmental permitting completed. Class A water licence signed. Active on other targets in area. 105G 117
Kudz Ze Kayah Teck Cominco Limited 600 – 200 Burrard Street Vancouver, British Columbia Canada V6C 3L9 Telephone: (604) 687-1117	**Total** 2003 Teck Cominco annual report	Indicated 11.3 Mt @ 5.9% Zn, 0.9% Cu 1.5% Pb, 142 g/t Ag, 1.1 g/t Au	*Deposit: active* 1993: discovery. 1994: 9 c. m/stop and haul road construction; 40 tonne bulk sample; engineering, metallurgical and environmental studies. Over 32 000 m of drilling. Environmental permitting completed. Class A water licence signed. Active on other targets in area. 105G 117
GP4F Teck Cominco Limited 600 – 200 Burrard Street Vancouver, British Columbia Canada V6C 3L9 Telephone: (604) 687-1117	**Total** 1996 Teck Cominco annual report	Inferred 1.4 Mt @ 6.1% Zn, 0.4% Cu 1.1% Pb, 99 g/t Ag, 1.2 g/t Au	*Deposit: advanced exploration* 1993: regional airborne geophysics. 1996: drilling discovery. Active exploration planned for 2003. 105G 117
Marg Atna Resources Limited Optioned to: Yukon Gold Corporation Suite 400 – 347 Bay Street Toronto, Ontario Canada M5H 2R7 Telephone: (416) 865-9701	**Marg** 1997 Unpublished company report as quoted in Carnegie Cross Newsletter 02_26_2000, p.5	Not defined 5 537 000 t @ 4.6% Zn, 1.6% Cu 2.6% Pb, 62 g/t Ag, 0.90 g/t Au	*Deposit: active exploration planned for 2003* 1996: discovery. 1998: 1 c. m/stop and road construction. 1997: preliminary metallurgical testing, winter road completed to facilitate development. Total of over 23 000 m of drilling to date. Deposit limits are open. 106J 009
Hart River Calypso Acquisition Corp. 1100 – 1111 West Hastings Street Vancouver, British Columbia Canada V6E 4G5 Telephone: (604) 669-2251	**Total** 1969 Mineral Industry Report 1969 and DIAND, p. 14; Mac Callum Minerals Limited, p. 5, p. 167	Not defined; originally reported as proven reserves: 1 814 293 t @ 4.6% Zn, 1.1% Cu, 0.5% Pb, 137 g/t Ag, 1.4 g/t Au	*Deposit: inactive* 1951: discovery. 1969: 1 c. m/stop, road construction and underground development. 1969: mine closed. 1981: underground drilling. Feasibility study completed 1985 (4 000 tpd milling rate). 106D 009
Wolf Atna Resources Limited (60%) and YGC Resources Limited (40%)	**Total** 2001 Atna website (reported as in-house resource)	Not defined 4.1 Mt @ 6.2% Zn, 1.8% Pb, 83 g/t Ag	*Deposit: advanced* 1993: discovery. 1996: road construction. Total of 10 000 m of drilling completed to date. 2000: completion of engineering studies indicating that upper portion of the ore body could be mined by open pit methods. 105G 005

Massive sulphide mineralized rock in drill core from the GP4F deposit.



Skarn/replacement zinc deposits.

Deposit Owner/optioned to/contact	Source Year resource/reserve was calculated/reference	Mineral resource/reserve category†/ Tonnage & grade/commodity	Status Yukon MINFILE no.**
Sa Dena Hes Teck Cominco and Korea Zinc Company Limited Teck Cominco Limited 600-200 Burrard Street Vancouver, British Columbia Canada V6C 3L9 Telephone: 604-687-1117	**Total remaining** 2001 Teck Cominco Limited Annual Report	Pre-production resource 5.1 Mt @ 12.7% Zn, 4.2% Pb, 64 g/t Ag Indicated 2 190 000 t @ 10.4% Zn, 2.6% Pb	*Underground past producer, mill, care and maintenance.* 1962: discovery. 1963: road construction. 1980-82: underground development, mill construction, produced until Dec. 1992 when closed due to low metal prices. 105A 012
McMillan Noranda BCE Place, 200-181 Bay Street Toronto, Ontario Canada M5J 2T3 Telephone: 416-982-7111	**Main** 1991 Assessment report #092920 **South** 1991	Historical calculation 1.1 Mt @ 8.3% Zn, 4.1% Pb, 62 g/t Ag Historic calculation 400 000 t @ 1.7% Zn, 9.3% Pb, 214 g/t Ag	*Deposit, inactive.* 1892: discovery. 1930: first staked. Total of 15 204 m of drilling completed. 1990: trenching to test for gold potential. 1993: reclamation program. 095D 006

Mississippi Valley-type zinc deposits.

Deposit Owner/optioned to/contact	Source Year resource/reserve was calculated/reference	Mineral resource/reserve category†/ Tonnage & grade/commodity	Status Yukon MINFILE no.**
Goz Almaden Minerals Limited 1103-750 Pender Street W Vancouver, British Columbia Canada V6C 2T8 Telephone: 604-689-7644	**Goz** 1989 George Cross Newsletter, 05/19/89, p. 2	Historical calculation 2 494 758 t @ 11% Zn	*Deposit, inactive.* 1971: discovery, prospecting, mapping, geochemistry. 1974: mapping, drilling (2024 m). 1975: geochemistry, mapping, drilling (4195 m). 106C 020
Craig Falconbridge Limited BCE Place, 200-181 Bay Street Toronto, Ontario Canada M5J 2T3 Telephone: 416-982-7111	**West zone** 2002 Canadian Mines Handbook 2001/02, p. 233	Not defined 874 980 t @ 8.5% Zn, 13.5% Pb, 123 g/t Ag	*Deposit, inactive.* 1976: discovery. Completion of over 6600 m of drilling to date. 106C 073

Vein/breccia associated zinc deposits.

Deposit Owner/optioned to/contact	Source Year resource/reserve was calculated/reference	Mineral resource/reserve category†/ Tonnage & grade/commodity	Status Yukon MINFILE no.**
Logan Yukon Zinc Corporation (60%) and Almaden Minerals Limited (40%) Yukon Zinc Corporation 701-475 Howe Street Vancouver, British Columbia Canada V6C 2B3 Telephone: 604-682-5474	**Main zone** Report by Hatch Associates Ltd. March 2004	Inferred* 13.08 Mt @ 5.1% Zn, 23.7 g/t Ag	*Deposit, inactive.* 1979: discovery. 1987: construction of air strip. Total of over 16 400 m of drilling. 2000: prefeasibility study. 2003: engineering studies. 105B 099
Blende Eagle Plains Resources 200-16 11th Avenue S Cranbrook, British Columbia Canada V1C 2P1 Telephone: 250-426-0749	**West zone** 2004 Technical report by B. Price, Oct. 2004	Inferred* 15.3 Mt @ 3.04% Zn, 3.23% Pb, 67.5 g/t Ag	*Deposit, active exploration.* 1975: discovery. 1989: road construction. 1991: metallurgical studies. Completion to date of 16 500 m of drilling. 2004: geochemistry, mapping and prospecting. 106D 064
Andrew Ron Berdahl Mile 7.3 Carcross Road Whitehorse, Yukon Telephone: 867-668-4963 E-mail: rberdahl@yukon.net	**Andrew** Personal communication R. Berdahl (internal Noranda report)	Not defined 1 106 226 t @ 12.4% Zn, 6.9% Pb, 19.2 g/t Ag, 55.4 ppm Ge	*Deposit, available for option.* 1967: originally staked. 1989: restaked. 2000: discovery. 2001-2002: drilling. 105K 089

Skarn/replacement zinc deposits.

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage@ grade/commodity	*Status* Yukon MINFILE no.**
Sa Dena Hes Teck Cominco and Kaska Zinc Company Limited Teck Cominco Limited 600–200 Burrard Street Vancouver, British Columbia Canada V6C 3L9 Telephone: 604-687-1117	**Total remaining** 2004 Teck Cominco Limited Annual Report	Pre-production resource 3.1 Mt @ 12.7% Zn, 4.2% Pb, 64 g/t Ag Indicated 7.190 Mt @ 10.4% Zn, 3.6% Pb	*Undetermined (past producer, 2005 care and maintenance)* 1967: discovery. 1967: road construction. 1969/97: underground development, mill construction; produced until Dec. 1992 when closed due to low metal prices. 105J 012
McMillan Noranda BCE Place, 200-181 Bay Street Toronto, Ontario Canada M5J 2T3 Telephone: 416-982-7111	**Main** 1991 Assessment report #092920 **South** 1991	Historical calculation 1.1 Mt @ 8.3% Zn, 4.1% Pb, 62 g/t Ag Historic calculation 400 000 t @ 4.7% Zn, 9.3% Pb, 214 g/t Ag	*Deposit, inactive* 1892: discovery. 1930: first staked. Total of 15 294 m of drilling completed. 1980: trenching to test for gold potential. 1993: reclamation program. 095D 006

Mississippi Valley-type zinc deposits.

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage@ grade/commodity	*Status* Yukon MINFILE no.**
Goz Aberdeen Minerals Limited 1101–780 Pender Street W. Vancouver, British Columbia Canada V6C 2T6 Telephone: 604-609-7744	**Goz** 1969 Geology Cross Section 93-29-89 p. 2	Historical calculation 2 494 750 t @ 11% Zn	*Deposit, inactive* 1953: discovery, prospecting, mapping, geochemistry. 1954: mapping, drilling, 2024 m. 1955: geochemistry, mapping, drilling, 4189 m. 106C 050
Craig Falconbridge Limited BCE Place, 200-181 Bay Street Toronto, Ontario Canada M5J 2T3 Telephone: 416-982-7111	**West zone** 2002 Canadian Mines Handbook 2001:02, p. 233	Not defined 874 980 t @ 8.5% Zn, 13.5% Pb, 123 g/t Ag	*Deposit, inactive* 1926: discovery. Completion of over 6600 m of drilling to date. 106C 073

Vein/breccia associated zinc deposits.

Deposit Owner/optioned to/contact	**Zone(s)** Year resource-reserve was calculated/reference	Mineral resource-reserve category‡/ Tonnage@ grade/commodity	*Status* Yukon MINFILE no.**
Logan Yukon Zinc Corporation (60%) and Almaden Minerals Limited (40%) Yukon Zinc Corporation 701–675 Howe Street Vancouver, British Columbia Canada V6B 2B3 Telephone: 604-682-3473	**Main zone** Report by Hatch Associates Ltd. March 2004	Inferred 13.08 Mt @ 4.1% Zn, 23.7 g/t Ag	*Deposit, inactive* 1979: discovery. 1987: construction of air strip. Total of over 16 000 m of drilling. 2000: preto-asibility study. 2003: engineering studies. 105B 099
Blende Eagle Plains Resources 200-16 11th Avenue S Cranbrook, British Columbia Canada V1C 2P1 Telephone: 250-426-0749	**West zone** 2004 Technical report by B. Price, Oct. 2004	Inferred 15.3 Mt @ 3.04% Zn, 3.23% Pb, 67.5 g/t Ag	*Deposit, active exploration* 1975: discovery. 1989: road construction. 1991: metallurgical studies. Completion to date of 16 500 m of drilling. 2004: geochemistry, mapping and prospecting. 106D 064
Andrew Ron Berdahl Mile 23 Cariboo Road Whitehorse, Yukon Telephone: 867-668-3963 Email: rberdahl@yukon.net	**Andrew** Personal communication R. Berdahl (internal Noranda report)	Not defined 1 106 226 t @ 12.4% Zn, 0.9% Pb, 19.2 g/t Ag, 5.4 ppm Ge	*Deposit, available for option* 1967: originally staked. 1999: restaked. 2000: discovery. 2001,2002: drilling. 105K 039